CD-ROM 300 Sega Nintendo Sony Jaguar Arcade On-Line CD-i SNK

GENERATION

The future of interactive entertainment

Premiere issue



The golden age of 16bit is over,

As nine new cutting-edge systems

prepare for war, NEXT Generation

reports from the field...





Sony PlayStation As PS-X ieunches in Jeper Sony's plan for videogame



3DO It's here. It's now. And 3 finelly hee some killer sames. But is it enough?



Sega Saturn Besed on ercede herdwa Sega'e 32bit eystem telk big. But can it deliver?

Your essential guide to

these and six other

next generation systems

starts on page 36



Welcome to a man jund of

We know who you are You're a dedicated gamer who hungers for knowledge of the games and systems of today and tomorrow. Gours interested in the very best the gaming world has to offer; the unique, the experimental — the cutting edge. You want the first word on the new issues, and the lax word on the old.

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Premiere Issue 1995

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Staff

Nell West editor Laura Merris art director Douglass Perry production editor Trent Ward reviews editor

Editorial Contributors Selby Bateman

Mark Ramshaw Dave Roberts Jeff Lundrigan Chris Slate Mike Salmon

EOGE Magazine

Artistic Contributions
Scotty Billings

Advertising

Doug Faust advertising manager

Subscriptions
Gall Egbert subscription director
Michelle Schalman customer services

Production

Ken Brandow production coordinator

GP Publications Inc.

Jenathan Simpson-Bint publisher
Irma Swaln production director
Kathleen Ingram marketing manager

Maryanse Napoli director of disculation Doug Hayne disculation analyst Brace Eldridge revestand sales manager Tom Valentine CFO Chris Anderson president

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Is it Now or Never for 3DO?

Trip Hawkins, president of The 3DO Company talks candidly with NEXT Generation. If 3DO is to stand a chance against Saturn and PhyStation, it needs to take full advantage of its head start. And that means Trip has to convince you to buy into his dream today



The Looming Videogame Wars of 1995...

Nine new 32bit and 64bit gaming systems are aiming to replace Genesis and SNES as the videogaming standard. But just how

powerful are these new machines? How do they compare to one another? NEXT Generation profiles all the contenders



he Violence Tape

After the ratings and after the media feeding-frenzy, what is the future for violence in interactive entertainment? NEXT Generation leaves the politics to the politicians, and talks instead to four games producers who will shape the future of this controversial game.



Segs 32X: success at the cost of Saturn? • SNK's Neo-Geo CD unveiled • Tokyo's Jamma Show ort . Nintendo's VR32 'Virtual Boy' . 3DO faces developer unrest . And plenty more.



Alphas

Previews of works-in-progress games around the globe featuring Virtua Fighter and Doycora USA (Saturn), Ridge Roser (PlayStation), Fight For Life (Jaguar), and eight more blockbusters



Ratings: 63 game reviews An essential monthly review of oil the best games on oil the latest systems. 3DO, Jaguar, 32X, CD-I, PC, CD-ROM, Genesis, SNES, Sega CD and Neo-Geo software reviewed and rated

talking

Is it Now or Never for 3DO? Trip Hawkins finds himself in the hot seat for the first in a series of NEXT Generation interviews with the players who will shape the future of gaming

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The Looming Videogame Wars of 1995

An essential guide to the future of videogaming, featuring each of the following systems: Philips CD-I 38 32X 39 Jaguar NEC FX Neo-Geo CD

Sony PlayStation Sega Saturn Nintendo Ultra 64

debating

The Violence Tapes Put four of the world's most controversial same designers in one virtual room. Start the tapes rolling and let's see where violent games are really heading

An early look at the next generation of software featuring PlayStation, Saturn, Jaguar and 3DO

rating: Finals

63 new games reviewed and rated. Your essential monthly guide to interactive and (with any luck) entertaining software. This month featuring: Earthwarm Jim (SNES and Genesis), Dankey Kong Country (SNES), FIFA International Socoer (3DO), Sanic and Knuckles (Genesis), Alten Vs. Predator (Jaguar), Maric Corbet (CD-ROM), Burn-Cycle (CD-I), Loods (CD-ROM), Killer Instinct (arrade), Cruit'n USA (arcade), and Super Stor Wors (32X)

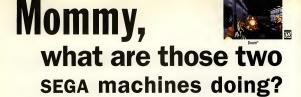
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112 ending: Next month.

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There was always going to be a window of opportunity: Sega and Nintendo would profitably milk the 16bit market long after a small but significant number of gamers demanded better. And right now, these early adopters have only 3DO to turn to. But as the Japanese console glants circle for the kill, the window is closing fast. So NEXT Generation asks Tiri Hawkins ...



Now or Never for 3D0?



After a shaky start, 3DO is arguably the hottest games machine in the US right now. The current price for a 3DO unit is realistic at \$399, FIFA international Soccer and Road

Rash offer state-of-the-art gameplay...
And there's still no serious competition

But this will change. As NEXT Generation goes to press, Sony's Pilg-Station and Segàt Saturn are launching in Japan. Nintendols Ultra 64, while still in development, promises revolutionary power. Add to the contuinor a glut of alternative systems from Atari, SNIK, NEC. Commodore and Philips, and it's easy to see that 1995 will witness the most bloody format wast of all time.

And if 3DO is to survive — if Trip Hawkins'

dream is to become reality — then it needs to make maximum advantage of its head start, it needs to establish itself now. Many games developers are looking at 3DO's sales this holiday season before deciding whether to continue further development, and machines live or die by such decisions. Which means that Trip Hawkins has to convince you to buy a 3DO system cody...

A golden opportunity?

NG: 50 — in the holiday season of 1994 and the start of 1995 — is everything in place for 3DO? Trip: Absolutely.

NG: What's missing from this 'golden opportunity?' Trip: The only thing that always takes time is awareness. Someone once told me that market researches had determined the growth rate for new products was very similar to the growth race of the bubonic plague: for consumers to really understand something they have to find out all about it from someone else. Other than this, I don't think anything is missing as such. NG: So 3DO must strike while the iron is hot. Never again will 3DO have the 'next generation' market so much to itself. How many machines must 3DO sell this holiday season to capitalize on this head start and make 3DO a system that third party games developers can't afford to ignore? Trip: It's not the absolute hardware numbers that matter, it's how much software is going to be consumed. For say, a machine like the Sera Genesis, by the time the Installed hardware base got to half a million, software sales were at 2 million per year. Well, we've already gotten to 2 million software sales in less than a year and with a worldwide installed base of 200,000. So one of the things this says about 3DO is that the software is better, the users are buying more software and so economically it's going to be a more attractive business on a smaller installed base than a cartridge machine. Plus, the margin structure is so much more profitable because CDs are so much cheaper to manufacture than cartridges NG: But even with a software-hungry audience,

you sell have to sell a sufficient number of units. They idon't think there's a majer number for sales this Christmas. I think that the santes software companies resides that the profit is already there. We have 13 titles already that have done over 50000 units — and data: a banchmark that a lot of companies will look at 50000 sales of a CDsoftware house, and if i spend half of that on my development budget and then some on marketing It, I'm already multing a good profit.

NG: How much is the Japanese market subsidizing a poorer US installed base?

Trip: The Japanese market got off to a faster start and the presence of this market is very attractive to software developers. Matsushitz and Sanyo are both trying to do software distribution and they will now step in and make upfront purchase orders



probably the biggest bang for the gaming buck available to US gamers. For the moment at least...

for a very large number of units. It's very typical in Japan that a piece of software will get an upfront order of anything from 25,000 to 60,000 units. Combine this with the sales potential of the US and the economics become very attractive. NG: So you don't feel there is anything to prose not the software.

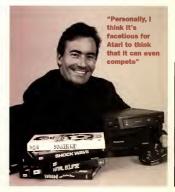
NG: 50 you don't feel there is anything to prove to the software development community in terms of sales numbers this holiday season. Personally, how many 3DO units do you want to sell! Trip: Over a longer period of time I'm looking at a target of 2 million. When we get our installed base up to other site it means we will make it as a company, Right now we are

losing money, we have to get our

we start making money and can concinue indefinitely.

NG: But the current market conditions won't remain indefinitely. In 1995, nine new systems will enter the marketsplace. Store shelves — for example — only have room for so many products, where can't be room for eventhody.

Tirip: You can say that, but the amount of space that can justifiably be devoted to 16bit cartridge products a year from now will be a lot less than it has been in the last few years. Retailers need new products to fill this say. I look at it, like this If a customer bought a



talking



can do with it? Let's just say it's three years. Well, last year there was only half a million people like that, at the end of this year there will be S million people in that situation. Next year, there will be 15 million NG: Sure, this evolution is inevitable. Hence, there was always spins to be a window of opportunity for 3DO: Sega and Nintendo would profitably continue with the 16bit market long

percentage of gamers demanded something better - these people are your target audience right now. But a year from now, this demand will be big enough to attract the big boys. 3DO will be fighting nose-to-nose with Sega, Nintendo and Sony, Surely, the market can't support four multimillion dollar platforms (we are even ignoring 32X, CD-I and Jaguar) in 1995. Someone

has to fail, right? Trip: The home computer market - typically - has supported at least that many formets. If you look at the 1980s you had home machines in the US ranging from the Apple II, to the Commodore 64, the Nintendo, the IBM PC, the Macintosh.... There's always been a fairly high level of confusion that has gone on since the industry began. It's unfortunate, it's too bad, but generally the market has supported a lot of different machines.

Trashing the competition...

NG: So what (albeit partisan) advice would you give to people considering buying a rival games system to the 3DO

Trip: I think customers who are buying the CD-i product probably aren't game players because anybody who plays knows

that games are not the CD-i's forte. Aside from that, philosophically, there is a lot in common between CD-i and 3DO in that they are the only two products on the market that support MPEG expansion (video-CD capabilities) and they are the only products that support all the optical disk format standards including Kodak and Photo-CD. So, if you're looking for versatility, you're probably looking at CD-i and 3DO. And if they are game players, then they should pick 3DO. NG: How about Jaguar?

Trip: We believe that to be a real competitor in this market, you've got to have about \$500 million in capital. Now, the 3DO company has more than \$100 million, and then we have Matsushita, our other hardware partners, and then all of our software partners and all of these companies together are making this kind of investment.

Atari really doesn't have any partners, they don't have much money themselves. So I personally think it's facetious for them to think that they can even compete. This is

I 6bit machine, how many years is it until they've done everything they after a small but significant

promises to the marketplace. And frankly, what they say about the product is very misleading. They've gotten pretty far on pure smoke and mirrors but I think that after this Christmas the reality will be very clear to people.

NG: How about 32X? Trip: Sega has a very large installed base. And any Sees Genesis customer who wants to spend a very small amount of money and get better gaming can do that with the 32X. The weakness is that it's not a viable long-term format; it's not compatible with Sega's next generation, and so basically it will be discarded within a year or two. And it will never be really heavily supported by third party software companies because they know that it will have a very short shelf life.

a fairly basic business reality for them and you can

past several years - there's been a trail of broken

see that over the past year - in fact, over the

I thought Genesis was such a great product that I gave one for free to every Electronics Arts' employee, But 32X is just a stop gap, It's a financial event for Sega as a company. It's not a good product for consumers.

NG: What about people holding out for 1995's next generation Japanese consoles? How about Ultra 64 and Saturni

Trip: A lot of insiders have a pretty strong feeling that Nintendo's Ultra 64 won't be in the market for '9S. A lot of people who are pretty dialled-in to

their R&D activities see it more as a product for the second quarter 1996. Nintendo just selected a RAM/bus memory architecture a couple of months ago (August), and it's going to take a long time to implement a machine using this architecture. OK, they've shown the coin-op hardware, but the home system is a

lot different. The Saturn is a very troubled project. A lot of people don't believe it will ever be marketed outside of lapan - so these factors will make the market a lot less cluttered.

NG: So, your warning to someone who's looking for a new games machine, but also waiting for next year's new hardware systems, yould be that the machines might

not turn up on time.

Trip: Partly, but also it's inevitable that in every category of consumer electronics there will always be new models released, existing ones will become less expensive, and new features will be added Any consumer of any type of technology product knows that if they wait, they can get something better and they can get something



cheaper. But we're all going to be dead matter in 100 years, so at some point you have to jump in and start enjoying your life NG: Fine, but then the flip side of this coin is that consumers also realize that what they buy could

be out of date in a year. Trip: Ordinarily, yes. But I think that

philosophically 3DO has a very different approach from everyone else. In the whole history of videogame hardware, companies have asked consumers to throw everything away every few years and start over. They say the same things to developers and to retailers. We think customers should have true upgrade path to the next generation - not just peripherals to improve performance. And this next generation should be backward compatible so that all the software you already have will continue to be viable. This way, developers also get to build on what they already know. If they want to upscale projects to work on our M2 hardware, they use the same tools and the

M2, codename "Bulldog"

and are already significantly on that learning curve. NG: Taking a look at Sega CD titles, or the ridiculous state of the PC Industry... doesn't the pursuit of backward compatibility simply anchor machines to the past and restrict performance?

same skills, they've already made that investment

Trip: Things can continue to evolve. For example, our operating system is already in its third generation, and each generation gets smaller (which frees up more memory for applications),





r's 3DO player is the second 3 the US markstplace, soon to be joined by accessory anabiling PCs to play 3DO soft

gets faster, and adds new features. The real issue is how difficult is it to get your next generation hardware to perform like the older generation of hardware, and in our case - because of the level of technology --- it's very easy to do that NG: Manufacturers of 3DO

systems (such as GoldStar and Panasonic/Matsushita) have to make profit purely on hardware sales. But a company like Sega can take a loss on hardware because it knows it'll make a killing on the software. So how can 3DO

possibly compete on pricing? Trip: The business models are more similar than you might think. First of all, a company like Sony has to pay for all their own R&D, whereas 3DO is going to spend more than \$100 million on technology development, and right there, that's a tremendous cost savings to each manufacturer who uses our technology.

Second thing is, a 3DO manufacturer shares the majority of the marketing burden with all the other 3DO companies, so this overhead is not as high, and that's another thing that has to be factored into your cost. A company like Sony has to do all its own software evangelism, but we do that with the 3DO format. The point is that the major hardware 3DO partners own a big chunk of the 3DO company so they are sharing in the royalty stream of 3DO, and they publish their own software. At the end of the day, there is really not that much difference

NG: Scheduled for release next fall is M2. At the moment you're proposing a plue-in accessory for existing 3DO machines. Surely there has to be a stand-alone 3DO II pla

Trip: There will be at some point. NG: A new stand-alone machine will benefit from having had over a year to rethink the manufacture of the original 3DO system. How have your engineers managed to reduce the

cost of manufacturing a 3DO Trip: The three biggest chips --- that are all custom parts --- have been combined into one which we call Anvil And this chip is now available and most of our manufacturing partners will be switching over to production of the use of Anvil in the early part of 1995.

NG: This has to make a cheaper 3DO II a big possibility. Will a new machine incorpo MPEG I or MPEG 2 video hardware! Trip: We'll continue to support both. But right now we're not ready to talk about the

details of how we are going to implement it. NG: So tell us about the heart of M2.

Trip: M2 basically has two key chips in it. There is a PowerPC chip that was custom designed by IBM and Motorola to fit in our 3DO architecture perfectly. And then the other chip is the Custom ASIC. This chip will do most of the other processing for graphics and audio and video

NG: Why chose PowerPC technology to be such a key part of 3DO's future? Trip: IBM has a superior proprietary semiconductor process, and both IBM and Motorola.

have the capability for multiple design teams and multiple processors in their family, so you have a lot of scalability when you need to move up to higher performance. And since Apple and IBM are using the PowerPC, that will drive the cost down so you're not just depending on 3DO hardware sales to reduce costs. NG: And how will this change gameolaving on the 3DO?

Trip: One consequence is improved polygon rendering. We thought that in a 1995 time

frame most of the existing genres in software are basically 2D backgrounds, 2D foregrounds, or a 3D background with a 2D foreground.

NG: Which is currently 3DO's strongest forte...

Trip: Right, so 3DO can do all the existing genres. But the one area that's like a new paradigm is 3D background with a 3D foreground using 3D polygon rendering for the characters themselves (such as Doytono USA) - and you need tremendously high polygon performance to achieve that.

Now you look at something like Virtua Fighter - which is at this point the only title



"the growth rate for new products is similar to the growth rate of the bubonic plague"

is notoriously slow.

of its kind where the fighters look like origami, and that machine is a pretty hot piece of hardware. That machine will do something like almost 200,000 polygons per second, but clearly it's not good enough. We want to make a quantum leap that really delivers this power to generate over one million polygons per second. And that's what we've done. NG: But numbers don't always tell the whole story. So Trip - just to make this clear - you're saying that a 3DO with M2 will be able to run Virtua Fighter - as it is in the arcade - without breaking a sweat? Trip: Certainly from the standpoint

of computing it's at a much higher performance, from what I know. Of course, the difference with arcade machines is that they have a remember. But of course, as RAM

tremendous amount of ROM so that's one point to remember. But of course, as RAM prices come down, you'll get more and more RAM in home machines and eventually even in this difference will go away.

NG: Yes, in the future, certaps, But in the meantime, the process of sucking data off a CD.

Trip: Yeah, but there's a whole lot more RAM (12Mbits) in a 3DO than the amount of ROM that's in a typical videogame cartridge. So if you wanted to just load something in RAM and execute under RAM (as with titles Demoliton Man and Buming Soldier), you can.

NG: How much will M2 cost! Tripp War en or ready to calk about pricing, but it will be very aggressive. NG: Because news of M2 and the next generation of 3DO hardware is out, won't that keep people from buying 3DO, innoving that in six month step! in eed to invest spain! Trips: The way consumes, behave is that when they are ready for something new, they get somethine new and frasks withing artiseer betwhere they have a product ine that they

can grow with it's not going to become obsolete. But have you convinced the gamers?

NGS is a Special variety of the game and proposed by the second state of the game and special variety of the game and proposed state of the game and the second state of the second special variety and the game and

It's a grass roots kind of thing, it reminds me of what it was like when I was back at Apple in the 1970s because nobody understood personal computing. Even journalists weren't using word processors. We would try to explain why a journalist would be happy to use a word processor, and they dight really grasp it.

NG: Could this explain why sales haven't been spectacular so far? A quote from yourself, actually, to Joe Flower for Wired 1.2: "Any time you get a big jump in performance, a half million or so people will buy it, no matter what you do in terms of marketing and support. Look at the Atan ST — they did everything wrong, and they still sold half a million."

3DO hasn't sold anywhere near half a million. So do these early adopters ño longer exist, or does 3DO simply not offer "a big lump in performance".

Trip it's just a matter of time. If you look at innovative formats in the past, they've taken anywhere from two to four years to reach the half







the PowerPC chip: the heart and soul of

million number. We're going to reach it faster. If you look at the history of the industry, the fastest stelling product is Super Nintendo. By the time Nintendo really established its franchise it followed along with its Sibit product which was the second fastest selling product in the industry's history. After these, the products that are competing

After these, the products that are competing of the filter set shall be considered from the filters and the filters are considered from the filters and the filters are considered from the filters and the filters are considered from the filters and the filters

Trips I don't think anybody has abandoned those dreams. I think you have to look at these kinds of changes as being more glocial. The real question is, of changes as being more glocial. The real question is, will be I of years before things calm down and a clear format standard energes. It is an increabily difficult thing to do. And (companies like) Sony—how demonstrated in the past that it will switch horse when I become clear that what they are doing is not the winning approach.

MG: And you've beeings the doorn open!

Trips Yeah, we don't have any desire to exclude anybody, and we try to look at it, not from the perspective of greed or control — what we want to do is create a business model that is profitable for all the companies that are involved. That's the only hope for standardization.

NG: But the typical behavior of third parties could ensure that this 'global standard' never happens although a standard would be universally acknowledged as a good thing. In the real world, very few software companies turn down a chance to be sole providers of software to what could be the 'Next Big Thing' The profit potential is just too great. So you have Namco leaping into bed with Sony, companies like Ocean and UbiSoft continuing support for Jaguar Each new system has software developed for it and the confusion continues... Trip: Actually, that's typically not what software developers are thinking Sometimes they are motivated creatively So, if a company has really hot technology that they just can't resist - they want to do something with it, they really want to express themselves creatively. That happens sometimes, but they'll typically only support a new

format if it makes business sense. And this is based more on fear: they are uncertain as to what will happen. They can't put all their eers in one basket. NG: So you think it's fear that's preventing a standard from easily establishing itself? Trip: In many ways this industry is like a dysfunctional family, where everyone has been horribly abused. Since I've been in the industry. there has been over two hundred different formats. - that's like 10 every year - so as a software developer you get accustomed to the idea that standardization is a pipe dream. It could never

happen in our lifetimes, so basically you had better

not count on it.

So for that reason, if a company comes along that has a credible strategy, and they are a credible company and have a good technology, it's very hard to ignore it - you have to think about the risk of what might happen if they end up having 20% or 30% of the market. Even though the software companies have the power to force the hardware companies to standardize, they're afraid to use it. Instead they say "We'll do a little bit on this one, a little bit on this one, and a little bit on this one, and we'll let the consumer decide," and well, of course, the consumer gets confused, and they maybe don't buy anything at all.

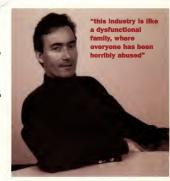
NG: So how do you break this vicious circle? Trip: First of all, you have to have a winning technology. If you don't have the best technology, then nobody is going to take you seriously. Second of all, you've got to have a business model that's a win-win, I mean, if the model is not going to be profitable for everybody, then obviously they aren't going to support it.

NG: So that's the global standard - a dream for the future. What about the 'all-in-one multimedia box' that 3DO was initially touted as the first step toward? Are games a Trojan Horse to get 3DO systems into the home today, knowing that the future VideoCD or play-by-cable market could be very lucrative? Or is it the other way around, and this 'little black box' concept is just a clever marketing ploy to simply sell more games?

Trip: I think the simple answer is that there has to be a customer who wants something in order for a new product to get into a home. There are a lot of people out there who want the next step in gaming, and that becomes the compelling reason why this technology moves forward. Once it sets into a household - that's when the other people in the household discover that this isn't what they thought it was - it's not just something for Johnny to play with, it's something that everyone in the family can use. However, it is going to take a very long time before the technology makes everything we have planned feasible.

NG: So is this concept of 3DO evolving into an allin-one video/hi-fi/computer set-up still on a back burner for 3DO right now?

Trip: Yeah, but there's definitely some flame under it not too far back on the stove.



Being big in Japan

NG: Are you happy with the level of third party software support 3DO has received? Trip: Yes, very happy. If you look at industry history, no home computer or home videosame system has ever had remotely this level of third party support in its first year. NG: You must be especially happy that EA has come through with some great software... Trip: Well, Electronic Arts is our biggest shareholder and that's where the 3DO project started. Frankly, everyone was always counting on software support from Electronic Arts. It was disappointing last fall, because EA, like other companies, was finding that to make really erear titles like Road Rosh, it was just taking longer than they had originally thought. NG: How important is it that Capcom and Konami are now actively developing Trip: It is an incredibly positive thing for us. If you look at the Sega Genesis, it wasn't until it was three years old that the big Japanese arcade companies supported it. And here's 3DO, and we haven't even had our first birthday and they're almost ready to release titles NG: One reason that killer software has been in short supply is that it's not just a new system that developers are working with, but a whole new type of game, All of a sudden designers are working with a CD format and considerably more powerful hardware than they've been used to. Is there a danger that 3DO is merely giving free software

development lessons for all the other future systems? Trip: [Smiles] It's always better to be in the lead...

Whether Trip Hawkins' plans come to fruition, only time will tell - NEXT Generation sincerely wishes The 3DO Company the best of luck. Our photographer actually has the last word in the interview:"I hadn't noticed your gray hairs before," he teases. Trip bristles, then laughs.

S. Inp or sues, tries wages.

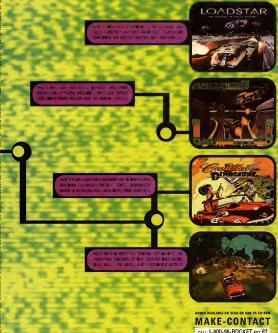
"It's a young industry," he replies. "But it makes you grow old fast."



is his secrets to NEXT Generation. Budding games designers take note



>>BC-OME(IN(MEXX 0-00Y0U0REA-0...TULLY1...MES THAT YOUX?.))))OO YOU R.EAD-ME...TU-LLY7...I'M(MEMGOMNA))))FRY
YOUR AS*SMI..))) THIS IZ X. ROCKET.))))SCI-ENCE...GAME.1...LOAD-STAR.MIMPMOD((()))U READ.)E.M.M...THIS I() ROCK



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Sega's 32X: stealing Saturn's thunder?/p14 • Neo Geo CD: US launch/p16 • JAMMA: Tokyo report/p18 • PC Graphics: New chip/p26 • 3D0: Taxes developers/p30 • VR32: Latest/p32



The latest news from the world of interactive entertainment

32X takes **Genesis**But does Sega take two steps one **step** forward

take two steps back? 32X may make a fast buck in late '94, but it could cost Sega dearly in 1995

alf a million Sega 32X units reached retail in late November, another half a million arrived early December - perfectly positioned for the holiday shopping season. Genesis owners can buy their ticket to 32bit gaming for \$159.99, far less than the \$399 It costs for a 3DO or the \$249.95 Jaguar, 32X plugs into the top of a Genesis, bringing a new VDP and twin Hitachi 32bit RISC processors to the party (see page 38). But NEXT tion questions Sega's sense in making an (albeit extremely lucrative) short term killing at the expense of focus, impact and stability come the crucial launch of Saturn in 1995.

That 32X will prove to be hugely profitable for Sega of America is unquestionable. Lured away from 16bit gaming by news of Saturn, PlayStation and Ultra 64, tempted by 3DO and Jaguer, and then marketed to (to the

Genesis gamers are desperate to reach that "next level". 32K is parent/friendly (it's an add-on, not a start-from-scretch replacement for an expensive limestiment), it's backward compatible with existing software, it undoubtedly offers a significant boost in performance (compare to a 488 PC) and it's here now. But there are many industry pundis including some Sega insiders — who feel that 32X shouldn't have arrived at all.

Count the platforms: segs CD, 32X, 32X Segs CD— that's four separate systems Segs is now committed to (even forgetting Game Gear). Of Courte, cross-fertilization is possible. But if Segs as to deliver to gamers software that truly takes maximum advantage of its hardware configuration then resources will have to be sored perfloxly trin.

On the one hand, third party publishers will weeken a fresh, vising market to compensate for the rigging market to compensate for the rigging market to compensate for the rigging flow to users of the rigging will be compensate for the rigging what over a million unavoid Street Fighter 2 contrides gathering will exhaustion with the rigging of the right weekforce when the rigging of the rigging market further. They but see burden of game end then risk of buying into an undersupported system on the gament place.



Tom Kalinske, Presider

"Saturn will be at a price point that will not make it a mass market item. So in terms of volume and keeping the category exciting, it's Genesis

and 32X"

Segare 32X originally wee pleased for leunch at \$1.48 with a game included. Adverse fluctuations is lepsases exchange rates, however, bumped this to \$1.68 with six \$1.0 game youthers lested of a buedled game

Jagus, and then makeled to to the the second of the second



That 32X release schedule in full

All titles are subject to change, and don't even think about asking for accurate release dates

Allen Trillogy Acctaim Apache Domark **Brutal** Gametek Clayfighters 2 Interplay Castlevania Konami College Basketball Sega Corose Killer Olgital Pictures Cosmic Camege Sega

Doom Sega Ecco Sega Fahrenheit CO Sega **Golf Magazines Soga** Hoops Virgin **Motel Head Sega** Midnight Raiders CO Sega

Mortal Kombat II Acclaim NBA Jam: Tournament Acclaim Night Trop Digital Pictures

Pitfall Activision Rece Orlvin' Atam Shedow Of Atlentis Sega Slam City Digital Pictures Sonic Sega Star Wars Arcada Sega Stellar Assault Sega Street Fighter: The

Movie Capcom Super Afterburner Sega Super Motogross Sega Super Space Herrier Sega Supreme Warrior Digital Pictures Surgical Strike CO Sega

Tempo Sega Virtua Racing Deluxe Sega Wirehead CO Soza

marketing support needed to take on the singularly-focused Sony, then it needs 100% of Sega's effort -- and it needs It now. Either Sega (sn't behind 32X for the long haul, or it's in danger of skimping on its preparation for the big battle shead. Of course, Segs angues that 32X and Saturn are targeted at two distinct markets - and that promoting one doesn't necessitate sacrificing the other:

Saturn, Sega is keen to stress

that 32X is not a stopgap, but

regards November's launch of

important hardware launch in

Sega's history," If Saturn is to

launch in the US next fall with

anywhere near the amount of

momentum, anticloation and

concedes that Sega Japan

"Saturn will be at a price point that will not make it a mass market item." Sega of America's President, Tom Kalinske, told a NEXT Generation correspondent, "so in terms of volume and keeping the category exciting, it's Genesis and 32X." But with Sony issuing threats of launching PlayStation at \$300, one has to question either Satum's competitiveness or Kalinske's definition

of what price constitutes mass-market. Either way, 32X is now cashing in all the brand loyalty Sega has succeeded in nurturing, leaving Saturn to fend for itself. The \$10 million marketing cush behind 32X will presumably extend



re will make it for Christman, and here they all are ring Fred Couples and Ster Wes rter 1995

> throughout 1995 (if indeed 32X is not simply a stopgap), and overlap Saturn's launch next fall. The consumer will simply become more confused, the stores will have to choose what systems to fill their limited shelf space with and Sega may well find itself with one of more of its

platforms left out in the cold. The bottom line is that 32X offers Genesis gamers a way to boost their system's performance at a rockbottom price. But with 32X games costing \$70 and significant support from third party publishers still in doubt, it may not be the bargain it first appears. And if 32X is the cause of Sega even slightly taking its eye off the launch of Saturn, then Sega could well regret the day it decided to bet on too many horses.

duction in Nintendo's net income op in Nintendo's portion of weekly rtridge sales ounted for in one

by Mortal Komi portion of sted for by tridges in ptember 1994: 64% nber of add-on modules available to CAD: 4,000 um RAM of 3 terabytes mmended length

able: 15 feet ncompressed A4 text ortion of Na engaged in arch: 25% epísode TV se \$2.2 million Increase on previous year: 177% mber of

mber of virteo les: \$.000

for the US

US launch for Bearing a ready-Neo-Geo CD made range of arcade-quality games, SNK's Neo-Geo CD heads





illd. The flip-top CD lid is raised by a sim

our years after SNK first unleashed its potent Neo-Geo console on Japan, the Osekabased company has launched a more determined attack on the domestic market with the introduction of the Neo-Geo CD - a repackaged, restyled and remarketed version of the arcade system that achieved limited penetration into the home. SNK released a 'special edition'

frontloading model in Japan on September 9. The voracious Japanese buying public consumed all 30,000 units on the first day of sale. From now on, though, a new,

toploading model will bear the Neo-Geo CD badge. This is the machine that will soon be available officially in the US.

NEXT Generation recorters

have managed to take a look at the only unit to have left Japan - even before the machine went on sale in Tokyo at the end of October. In technical terms, the toploading unit is identical to the frontiosder. The only differences are superficial: a flip-top lid replaces the motorized CD SNK's library of arcade

tray, and the build quality and overall design have been improved. Like the previous model, the new machine's CD drive is a single-speed type, chosen for reasons of cost. The original Neo cartridge specs still apply, although

the new machine now has a huge seven Megabytes (56 megabits) of DRAM. 512K of VRAM and 64K of SRAM SNK will be pricing the new

machine at the same level in Japan as the frontloader - ¥49,800 (\$537), for the hardware only. According to Japanese sources, SNK makes no profit on the new hardware. Although the cost of the chipset has naturally decreased since its introduction, the continuing high cost of silicon on the international market means that the system's ample memory (the largest of any console by a huge margin) is a burden that couldn't be absorbed in its retail price





games includes some truly memorable titles. The sheer power of some Neo-Geo software makes the machine well worth considering

Release dates (Japan)

· Last Resort

· Basebali Stars 2

· Football Frenzy

· Samurai Shodown

· Super Sidekicks 2

. King Of The Fighters '9

Late November

Magician Lord

Top Hunter

. Agro Fighters 2

Early November • Nam '75

- · Aipha Mission II . Top Player's Golf + Puzzled
- . The Super Spy · Burning Fight
- . King Of The Monsters 2 · Art Of Fighting • Fatal Fory 2

- · World Heroes 2 . Thrash Raily . Bine's Journey
- · Ninja Commando . Art Of Fighting 2 Samurai Shodown 2

January 1994 · Aggressors Of Dark Kambat

Size matters

The first Neo-Geo carts

like Art Of Fighting 2

(178Mbits), and newbies

like The King Of Flohters

'94 (196Mbits) and Samurai

Shodown 2 (202Mbits) are

rapidly approaching the

system's 'max 330 mega

megashock' that will be

potential buyers will be

gladly suffering from.

limit. Presumably, the '300

emblazoned on future Neo

carts is also something that

weighed in at a modest 46

menabits while recent titles

Neo-Geo: the story so far

The Neo-Geo home system went on sale in Japan in March 1990. packaged with a four-button joystick and a memory card. In a market where 8bit Famicom and PC Engine games were the norm, its arrival was met with general disbelief (and not just because of the price of the software). The technology was more advanced than almost anything available at the time, and delivered vivid. powerful games - SNK simultaneously launched a line of cart-driven Neo-Geo coin-ops, which are still thriving.

Given the age of the hardware, the Neo-Geo's spec is still impressive. Apart from the inclusion of an extra 430K VRAM. 64K SRAM and 56 menabits of DRAM, the CD machine is virtually identical. At its heart is a 16bit 68000 running at 12MHz, supported by a 4MHz ZRO. It can handle up to 4.096 colors onscreen from a 16bit palette, with three simultaneous scrolling playfields and up to 380 hardware sprites (plus hardware scaling support). There is also some meaty sound from a 13-char

Yamaha 2610 chip. High-memory, high-price cartridges and an entirely arcade-driven software library (no shortage of beat 'em ups) have limited the appeal of SNK's cartridge machine. New with the Nea-Gen CD, SNK is promising both a wider variety of inhouse software (a Zeldastyle RPG, Krystalis, has been held back especially for the format), and greater third party development.

SNK has had to make one major sacrifice to obtain the benefits of CD-ROM: speed, Neo-Geo CO stames are handicapped by lengthy loading times given that some of the recent games approach 200 megabits, those 56 megabits of internal ORAM don't go very far. Most of the games NEXT Generation tested took around 30 seconds to load initially, with subsequent loading taking place when required. Some early, lower memory games take even longer. because the whole game is loaded into RAM at the outset, requiring a 40-50 second stream of data at 150K/sec (although no further data arress is needed once the game is installed in memory). While that's fine for catching up on classics like Marician Lord and



The limited-edition frontinading Neo-Geo CD sold out in Jepan at leunch

Nam '75, '100 megashock' and soon even '200 megashock' games will result in even longer delays. Time to make a cup of coffee, grab a muffin, and watch an episode of 'The Simpsons.'

of course, this problem is not unique to the Neo-Goot Cut and in many ways the delays endured while widing for games Illes Samural Shooten and Fatility 2 to load only serve to heighten the Vasual and soon overside that follows. And many games (more than wais first amounced) will settle the recorded to coordinate, which not only sees on terminal build consume the sees of the coordinates of t

It's not known how much Neo-Geo CO will cost, or what bundled games will be included for the US launch. In the UK it is known that two



In the UK two Neo-Geo CD packages will be leanched in 1995. The more expensive bendle includes two Joypade (ebove) and three games

hardware packs are expected to be made available; one consists of the machine, a joyped and Fatal Fury for £391 (\$600); the other comprises the machine plus two joypeds and three games [Fatal Fury, Super Subskicle 2 and Last Resort) for £499 (£750). It is likely that US prices will be lower, hopefally no more than a competitive(sh) \$500.

With SNN taking the traditional lapanese route of using the hardware as a loss leader, software sales and obviously crucial. Genes will probably start at \$50, insign to \$70 for newer titles, which alone makes the system as attractive proposition, given that many SNES and Genesis games are now weetinging in at her her \$75.

SNN is in the envisible position of having a machine that can immediately call upon a backcatalog of impressive software. Non-dighter fans may find its line-up fairly unappealing — 12 of the 25 known releases are of the brawling variety — but SNN's library of arcade games includes some great titles.

while the loading times can be offputting, the sheer power of some Neo Geo CD software makes the machine well worth considering. Anyone in doubt should check out Samurar Shodowa rather playing SAFI or MKNI on the SNES, it's like reading NEXT Generatine after

ding NEXT Generation after National Enquirer.



The new jo has a mior directions works well machine fi left to righ S-Video, o and stored

e new joypad (above) is e micro-switched rectional control which orks well. The reer of the achine features (from fit to right) RGB S-Cart, Wideo, composite video of stereo jacks

Coin-ops stay on cutting edge Coin-op

companies flex at this year's Tokyo JAMMA show

> he PlayStation and Saturn represent a significant convergence between the performance of home and arcade silicon. But the arcade industry isn't ready to roll over and die just yet. The Japanese Amusement Machine Show provided an opportunity for coin-op hardware to reaffirm its technological superiority over the new consoles. Sponsored by the Japanese

> Amusement Machine Manufacturers' Association (JAMMA) and held at Tokyo's Makuhari Messe venue, the AMS rekindled a few old riveiries between the major arcade players and confirmed the increasing lead that Sega and Namco have over the pack







Sega's impressive catalog (matching its incredibly large stand) was headed by a 75%-complete Virtua Fighter 2. A stunning texture-mapped sequel to the Japanese hit, the game is expected to arrive in far eastern arcades before the turn of the year.

Virtua Cop (Model 2) was equally impressive and on display, although it was described disparagingly

by some observers as 'Lethal Enforcers with polygons.' Playing a trigger-happy policeman with an arsenal of futuristic weapons, your mission is to rid the streets of criminals. A simplistic task but, as it turns out, a highly enjoyable one, especially as all the characters react differently according to the situation. The sight of a shotgun blowing your hapless victim across the screen was particularly popular, And those polygons are unbelievable.

Namco, the sole Japanese manufacturer to record an increase in profits last year (up 25%), had its new Formula 1 game, the System 22-based Ace Driver, lined up on the starting grid. Featuring two views and excellent eightplayer action, the gene was another example of Namico stealing Sega's thunder, with its refined System 22 hardware outperforming the current king of the driving games, Daytona USA.

Namino's other big showstopper varieties. Based on PlayStatina count political state of p





Nemco's naw F1 sim, Ac Driver, set the hearts of multi-player racing

Further ovidence of the growing crossover between coin ops and consoles was provided by Seg is long-waited STV board — development name Titan. Designed as a streamined version of Satum, Titan has been optimized for use in the erceder. The term 32bt Hittach processors remain but the board now boasts more memory, a fester serial I/O.





Konami's \$100,000 Speed King uses a reactive cockpit (top) and incredible real-time polygons (above and right)

a custom Yamaha soundboard (different from the one found in the Saturn unit), and increased speed,

ST-V's main selling point will be its easy access to a wide range of home Saturn software on both cartridge and CD-ROM. The first ST-V titles to see the light of day are Golden Axe: The Duel and Title Fight 2. Golden Axe, now 50% finished, is a one-on-one beat 'em up with large, colorful characters and a wide range of special moves - although it has little of the charm of the original Golden Axe game. Title Fight 2, yet another boxing game, looks highly polished even though it is still at an early stage of development. Sega is hoping that the ease of cross-platform



When is it?

It's when gamers who want the real facts about the future of interactive entertainment will head for the nearest newstand for the second issue of the most up-todate, comprehensive and global garning magazine in the US.



Although essentially a Lethal Enforcers clone, AM2's Virtue Cop sport fentestic Model 2 visuals which put it way ahead of the pack







it is...

24 January 1995, when the second issue of NEXT Generation hits the streets. Of course, the truly dedicated gamer (who also wants to save some cash) will rush to take advantage of our great subscription offer on page 32





Segar a ST-Y board (originally called Titan) was unvailed at the JAMMA show with a 50% version of Golden Aze: The Duef (below left) and Title Fight 2 (below right). SNK's Shin Samural Spirits (abova left) and Taito's Darius Golden (abova right) were possion secured.

Head start for Ultra 64?

Nintendo is apparently so concerned about the arrival of the Saturn and PlayStation in the US next year (spring and autumn respectively) that it is considering shiftling the launch of its Ultra 64 home system forward by several months to mid-95.

NEXT Generation has also discovered that the only developers with kits (Rare, Iguana and DMA) have been shipped Onyxes while the U64 chipset is being completed.

Nintendo is telling its developers that the finished Ultra 64 will deliver the same level of performance as an Onyx (realtime raytracing of 16bit color polygons at over 30fps, etc).

In the meantime, Nintendo has another incart chip for the SNES on the way: a 32bit processor (possibly NEC's V810) for handling fast 30... conversion promised by such games will encourage developers to port titles between arreade and console as standard. Development work has already begun on 10 carts designed to prove that the theory.

works in practice. Segs and Namco's pre-eminent position in the arcade market was threatened this time by Konami. The Kobe-based commany previewed a highly ambitious \$100,000 simulator nide called Speed King, NEXT Generation had the opportunity to test it out, and fet slightly the worse for wear after the experience.

Taito's Real Punch tound a novel way to add a little spice to the classic jounch the bail' game. Before each punch, your face is photographed and digitized. It she subjected to warping effects based on the strength of your little, depending on how well you perform, you can end up with any thing from a thick jet to full facial mutilistion. Perhaps a version featuring digitised pictures of politicians could work well.

Darius Gaiden was another Tarto product on display. The third game in Darius series, it continues the familiar theme but offers several enhancements, including more shields, extra weapons and hidden areas. The playshilty of facts games remains high, but if new products like Space invaders DX are anything to go by, the company is attempting to stave off the future by re-animating the past. One last note: Virtual reality seems

One last note: Virtual reality see to be taking a tortuous route into the arcades, with only two VR projects present at JAMMA. TecWar, a joint Sega/Virtuality effort, was characteriz





by limited gameplay and unexciting backgrounds. A much better game was Taito's Zone Hunter, a 30 blaster (also produced with Virtuality). In all, an impressive line up of arcade hardware. ula'n USA la highly symble but the cabinet bova) la about as ol as Barney



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Saturn at CSG show, The CSG show was the prifet launch **date** set

The CSG show was the perfect opportunity for Sega to reveal its Saturn launchplans and debut software line-up

utting its lackluster March show well behind, the Consumer Soft Group (CSG) moved to a much larger venue in likebulauro, Tolyo for its latest blannual exhibitor. Usually well supported by consumers and exhibitors alike, the event saw as many as 58 companies displaying their most recent wares.

Sega's presence at the show coincided with its announcement of the Saturn launch date. In a more designed to gazump Sony (which shifted the PlayStation launch forward to November 30 to maximize its sales), Sega announced its plans to launch the Saturn on

November 22. Licensed machines, notably the V-Satum (bearing the

name of one of Sega's development partners, NC) will appear at the same time. Although the price was still undecided at the time MEXT Generation went to press, it will be about 10% less than the ¥49,800 (\$500) previously announced.

previously announced.

Protected by its usual mob
of camera-phobic officials, Sega's booth
featured a range of Saturn and 32X
games. In the absence of Daytona USA,
Panary Grafton was the hothest



Sega's Seturn stand (above) Included playable versions of Virtus Fighter. Clockwork Knight and Panzar Dragoon. After doubts as to whether it would be Issueched in Japon. the 32X was







terest is Sega's 32X games was high, aithough few delegates hogged

attraction. The game looked almost complete, with all three views (front, side and rear) now implemented and an increased level of detail in the backgrounds. The remaining time before release will be taken up with designing

more levels.

Virtue Fighter (see page 66) was playable, but still a long way from the arcade version. Victory Goal and Gale Racer were also shown, but only on a video wall. Despite Sega's decision to



NEC's PC-FX was up and running. Son software looked odd, some impression

Saturn gear

Accessories for the Saturn were recently shown at an electronics show in Japan which took place a week after CSG. Around the time of launch, Sega will release a multitap adaptor for up to seven-player games (connecting two machines enables up to 12 to play), as well as a mouse, a steering column (in time for Daytons USA, hopefully) and a RAM cart which boosts the system's SRAM back-up capacity 16-fold.



The Price Was Right

As NEXT Generation goes to nees, a few weeks remaining before the launch of the Saturn and PlayStation in Japan. speculation about their final nrices are still rife Mirroring Sega's concern about Sony (see story opposite), an SCE official commented."We fee anxious about other companies' actions. We're aware that we can't keep silent forever, so we'll announce the price in good time."

Analysts in Japan have assembled possible price brackets for each of the coming machines. One thing is clear: It looks like it'll be a consumers' market.

Saturn (available now) Price: ¥42,800 to ¥47,800 (\$423 to \$473)

PC-FX (available now) Price: ¥47,800 (\$473)

PlayStation (available now) Price: ¥29.800 to ¥42.800 (\$295 to \$423)

Ultra 64 (on sale Sept '95) Price: ¥25,000 to ¥29,000 (\$247 to \$287) 3D0 (available now)

Price: ¥40,000 (\$395) (based on recent US reduction)

release the 32X in Japan after all, the selection of 32X titles previewed at CSG (Metal Head, Star Wars Arcade and Space Harrier) failed to generate much enthusiasm. The general attitude seemed to be: "Why bother with this kit when I can have a Saturn?" Of course, that's easy for the Japanese to say. Some of us

won't det Saturn until "later in 1995 " Time Warner Interactive (present at CSG for the first time) is spreading its wings, with plans to develop for both the PlayStation and Saturn. Its first project due for release is Tama (see Page 75). The Saturn version is only a month away but the PlayStation will have to wait a little longer, TWI is also developing Virtua Racing for the Saturn: irrespective of the quality of the Daytona USA conversion, it looks a certain money-maker.

Capcom's harren patch appears to be continuing. Despite an announce that its current arcade success.

Darkstalkers (aka Vampire), is on the way to the PlayStation, all it had were SFC dames: Rockman X2 and Captain Commando and Mickey and Minnie's Magical Adventure 2 (again)

NEC, a company whose games division is aimed almost exclusively at the Japanese market, also showed up Playable demos on finished PC-FX units included the same selection of (it has to be said, very Japanese) software seen at the Tokyo Toy Show, although the majority are nearing completion.

Also circulating on the NEC stand were rumors of the company's future plans: Several sources claim that NEC is already working on the successor to the uncoming PC-FX system.

Finally, the "ambitious shoot 'em up" (their words, not ours) in development for the PC-FX is to be a 3D remake of Space Invaders. Very ambitious.



speaks out Sega's president, Hayao Nakayama, has nubliely

meters. They have

tential to make

voiced his fears about the Impending console battle. "There will be chaos." he recently told the Japanese business press. "Sometimes we will win and sometimes others will win. For certain we will survive. Whether as number one or num

two, I don't know." He added: "Sony is a much stronger company than another company I can't name (answers on a postcard). Sony has much more experience in the consumer market."



Not.

rights to develop Sega's won Virtue Racing for the Satura (early sor

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UK chip delivers NEXT Generation visits a UK-based company with designs on the global PC graphics market

it is... fractal. Fractals allow nplex patterns to be ated from simple ential is starting to tapped in the field or

ratios of 200:1 are

thought to be possible

ritish-based hardware designer 30labs has developed a new chip that could revolutionize PC graphics performance

Called GUNT, the 64bit custom graphics accelerator is designed to take on all the rendering intensive 30 work usually handled by the PC's central processor, leaving it free to perform other tasks, it can produce 300,000 Gouraud-shaded and depth-buffered polygons per second as well as offering texture mapping, alpha blending, antialiasing and fog effects capabilities

which easily out it on par with the custom graphics herdware found in 3Dlates the next-generation consoles.

Most existing PC accelerator chips are used primarily for uses other than games: speeding up Windows or enabling video

playback. While the current crop can be used for game-enhancement. (Oomark claims that with custom drivers, a contemporary accelerator boosts a 486's performance from 320x200 resolution to 1024x768 resolution at 25fps while running FlightSim Toolkit - a gain of eightfold in memory handling), GLINT could well provide game designers with graphics





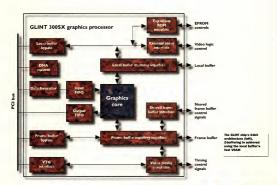
beast itself: GLINT packs 304 pins

The GLINT story begins in 1983. "We couldn't even afford a garage," recalls Osman Kent, president of 3Disbs. "My pertner had a house in Kilburn and I had one in the Southwest of London. His house was called the headquarters, while mine was the technical site. We had customers calling at these places, some really prestigious customers, and some of them didn't ever realize that they were in the right place."

Kent's company has undergone numerous changes since those humble days. In 1985, 20% of it was sold to Phicom, providing a cash injection that enabled work to start on a project called the GJP, which was intended, in Kent's modest words to be "the world's

fastest graphics engine." A year later Kent brought the chip over to the US. "No one was expecting us," he says. "We came out of nowhere this tiny company with world-leading technology." The pedigree of the GJP was immediately recognized leading to Crosfield Electronics' Investment in 1986. But the biggest boost to the company's fortunes came in 1988 when it was bought for \$12 million by DuPont, one of the world's ten largest corporations. Now named DuPort Pixel, it received





PC link for

PlayStation Rendermorphics' Reality Lab graphics software is an important element in the GLINT story (see overleaf). NEXT Generation has learned that not only is Reality Lab currently licensed to major players in the games community, but RenderMorphics is also working closely with Sony, regutedly providing It with a graphics library for the PlayStation. It has also discovered that

Sony (ie Psygnosis) is developing an API that will allow cross development between the PC and the PlayStation. The result: PlayStation games will be appearing on the PC, and vice-versa. research investment of \$20 million over the next six years and was granted several key 3D patents.

The GLNIT project was started in 1993 when the company was still under the angle of DePort. "He begin development of the 30 graphics only that development of the 30 graphics only that accumulated so fair," says Rent. "R was not accumulated so fair," says Rent. "R was not an image device that even SGI was only the same properties to set that there were markets outside the high-end systems were all control to the same set of the

The SUCCESS of SOlatas is cue to a combination of technological expertice and business acumen. Although many firms have produced powerful graphics accelerations, most have faller produced powerful graphics accelerations, most have faller personaling observations to support a "non-standard" product. A significant step toward opercoming this obstacle was made in 1990 when Kent entered talks with Solf to license the Operful synthesis of the Solf to license the Operful synthesis of the Solf Man swarp of the Operful Solf was warp of the

managed to overcome SGI's reservations and secure one of the first licenses, with the result that GLINT became the first single-chip device to support OpenGL.

This was a crucial development given that OpenGs is used as an API (application programming interface) by the industry powerhouse, Microsoft, it is supported by Windows NT products and will also have full functionality in Chicage.

Both Motorols and Intel acknowledge GUNT as a significant step toward bringing fast 30 rendering to the home market. Many graphics card manufacturers, like SPEA, are also excited by it. However, Kent dense numors that Ninerolo is planning to incorporate GUNT technology in its new VR32 system.

More concrete is the involvement of Singaporean soundcard manufacturer Creative Technology, which has taken a minority stake in 3Dlabs with the aim of creating a combined graphics and soundcard.

in another move illustrating the multidisciplinary collaboration that Kent



This demo (ebove) is fully impth-buffered and took set five minutes to creat on a PC using Reality Lab



"This 64hit

custom PC

accelerator

is on a par

with the

graphics

hardware

found in the

generation

consoles"

custom

next

graphics



hopes will become standard in the computer industry. 30(abs has feamed up. with London-based RenderMorphics, whose own API. Reality Lab. features built in support for GLINT. Reality Lab is a Windows-based authoring system that enables games to be created in a fraction of the time consumed by traditional programming methods - to prove the system's power, RenderMorphics produced a true 30 engine running with 256 textured colors and at 15fps in less than a day. With GLINT installed (and auto-detected by Reality Lab) these figures would be closer to 32,000 colors and 50tos. Argonaut, the creators of Nintendo's Super FX Chip and Star Fox. also developed BRender, designed specifically for games development and specializes in fast texture mapping, and offers GLINT support.

Of course, developing a world-class product and seiling it to the world are two different things. 30(abs proposes to price the basic 3005X at \$150 each for purchases of 10,000 units. Another version, the 300TX, with far superior texture-mapping ability, is aimed specifically at arcade developers, who, says Kent, have shown 'considerable interest.' By making it unnecessary for developers to adopt new standards, GLINT has already leaped the first hurdle in the race for acceptance

Of course, competition is just around the comer. Chip manufacturers including Yamaha (who are supplying Sega with chips for Saturn), Matrox and new start-up Synema all have plans to produce similar 30 accelerators. Presumably ATI Technologies, Weitek and Cirrus who currently produce accelerator chips for Diamond, Orchid and Matrox boards won't die without a fight either.

But if GLINT's plans come to fruition, then the graphics chip standard could eventually be dominated by a single firm to the same extent that Intel dominates the home CPU market.

And that's what the PC sorely needs in order to survive.



A regular spot where NEXT Generation reports on how technology will shape the news of the not-too

OrniNet data packet: 89342516B175 Datetime: 17.493, 3994

Silicon rights groups today formed a coalition to try to force changes in global instruction sets that would make experiments with carbon-based biological lifeforms illegal. During the last few quadrillion clock cycles, devices have become increasingly concerned about the advances being made in the field of biological design and generation.

cern centers on the issue of artificial intelligence. Proponents of bioform research have long been arguing that it is possible to create artificial intelligence within a carbon-based entity. However, these claims have always been refuted by the church, which claims that they represent a blaspheny against Babbageanity

Some of the world's most-respected DSP chips have been analyzing the question of consciousness for some time, and new developments in the field are starting to contradict the assertions of religious bus designs that it cannot reside in mere biological cells - that it is an abstract metaphysical entity that, although separate from the silicon through which it manifests itself, cannot exist without such basic building blocks as peripheral interconnecting buses and a parallel pipelined architecture

It is reported that a wholly biological device made from new substances known as 'Flesh "Blood," and "Bone" was recently observed to move across a smooth floor, albeit using crude 'legs' rather than actual castors, and make decisions on its direction of travel based on input from visual instruments. These instruments, although not as sophisticated as CCDs, performed remarkably well given the simplicity of their 'rod and cone' design.

The developers of the device, Dr. 6809987650 and Professor 8035462786 from the International Institute Of Philosophy And White Goods Studies, claim that it made conscious decisions based on its inputs and previous experience, and that it achieved a decision success rate of almost 80% until it got a 'headache' and had to rest

Such experiments are dominating the debates of argument-coprocessors and religious diatribe servers. It seems that it cannot be long before artificial intelligence through biological devices becomes a reality, although it is unlikely that such creations will ever be thought of as 'lifeforms' in the true, electronic, s

...transmission ends.. This Month's Over The Wire was supplied by Patrick Buckland

Movers 'n' Shakers by Selby Bateman

A monthly look at the business news

that affects the gaming world

HUIZINGA WEPT

That was Wayne Huizinga, the guy you rent movies and videogames from all the time, dabbling happily at his eyes as he watched his own Blockbuster Entertainment (he's CEO) marry Viacom ("Beavis & Butt-Head," Nickelodeon, etc.) back in the fall. So, who cares?

You do. You're looking at the future of the interactive entertainment business - the one-stop shopping approach. Hulzinga knows that a mejor consume distributor (Blockbuster) in bed with e mejor cont vider (Viacom) is a marriage made in interactive es heaven. Just think what you'll rent or buy from Wayne's World!

SEGA/ATARI: TELL THE LAWYERS TO KISS AND MAKE UP

Relations between Atan and Segs are much improved now that Atari has dropped its patent-infingement lawsuit against Sega, and the two videogame manufacturers have inked a deal allowing Sega to have rights to use more than 70 Atan technology patents. Also, Sege has bought 4.7 million shares of Atan stock. Why the sudden shift?

The reason that the Atari Jaguer videogame system has had the visibility of a stealth bomber stems from the fact that Atarf had few funds to properly market the sys Now, with \$50 million licensing money end another \$40 million from the stock sale, Atari is mounting a nationwide Jaguer attack. For Sega, the litigation was a drag, and Atari's technology gives Sege more opportunities and a strategic partner

SPEAKING OF SEGA...

Sega's section of DisneyWorld's Innoventions high-tech payillon in Orlando has, not surprisingly, turned out to be the most popular exhibit for kids. Sega's H.L. Buo Werner, vice president of merchandising, says that three-quarters of a million people are moving through on a monthly basis.

Yet another coup for Sega President and CEO Tom Kalinske, who brainstormed the Idea with Disney's Michael Eisner e couple of years back, Rumors heve been surfacing that Kalinske end his winning strategies at Sega are of keen interest to several companies -Including Disney --- who are looking for top talent.

NINTENDO PROVES WHAT GOES AROUND. COMES ARCHIND

it's 1988, and a good number of retailers are privately drousing to anyone who'll listen that Nintendo of America (NOA) is browbeating them into taking what NOA wants them to take - or do without. Now, it's 1994, and NOA is guaranteeing it'll buy back any unsold Donkey Kong Country carts that don't sell through.

With retailers already queasy over the possibility of a drop in the 16bit cartridge videogame market right now, and with Sega having cleaned Nintendo's clock last year on 16bit sales, NOA is making sure that DKC doesn't end up DOA. A less cynical view might allow that Nintendo does have high confidence in the new title, and is dering retailers not to sell the cart through. Don't worry, it's selling,

IS IBM ABOUT TO BUY APPLE?

OON'T LAUGH JUST YET ...

What's with Apple Computer's stock, up and down recently as rumors that Motorola, IBM, or AT&T might be interested in purchasing the company?

Expect the voiatility to continue, While IBM end Motorola ere working with Apple on PowerPC con they're still very competitive with one another. But both IBM and Apple face market-share problems that could make a merrioge — once unthinkable! — e salvation for both. If not a marriage, some sort of investment in Apple may be more immediately in the offine for IRM.

IS SUMMER CES GONE FOREVER?

So, how is it that the Electronic Industries Association has such a nonular lanuary Consumer Flortronics Show (all space sold out), but had to 'postpone' the Summer CES until 196 in favor of Electronic Entertainment Expo?

Well, two things, reelly. One, infote Knowledge Industry Publications had the foresight to place E3 in LA - easy access for the bulk of the software companies. And more importantly, it's an elientertainment show, not having to share a software focus with a hardware focus. Videogames represent 12% of the January CES, with other software and interactive segments representing a total of 20%. The interactiveentertainment biz is getting too big to be a subset of a enelectronics show.



Movers 'n' Shakers

is edited by Selby Bateman, the executive editor of Computer Entertainment News: the US's leading trade newspaper for the the computer Jelsure industry

3DO faces **mutiny** by as 300°s **game** developers

As 3D0's manufacturers balk at absorbing \$200 million in projected losses, angry games producers face a \$3 fee on each game produced

Le recent meeting with 300 developers, Top Haskins broke the news to Sarryo, Panasone, Goudster and Creative Labs that combined, they face losses of more than \$200 million new then sext 350 million new then sext 350 million new then sext 350 million news septenduelty unwelcome. Without a revenue generating plan to case the mendracturer's burden, 300 could have found titself in senious rais of the helium.

Unluckly for games developers, Trify Bawkins had a plan. 300 games developers are to be "taxed" \$3 per copy of every game they make. This con top of an existing \$3 royally as pert of the criginal 300 deal. This new revenue will provide a "Market Development Fund" (MDF)— half of which is betheved to help manufacturers" profits, and the rest secret on majerchin 300.

"We have a significant window of opportunity this Christmas and the MDF program allows us to take full advantage," argues Clindy McCaffrey, 3DD's public relations manager.
"We enticipate the MDF Program to dramatically increase the installed base

through increased consumer awareness." Fine. But this was news to games developers, who already are finding it tough to make money on 3DO publishing. Most were shocked by the news, and a few even question 3DO's right to impose such a burden out of the blue. Tom Zito, CEO of Digital Pictures comments: "It makes me rethink developing for 3D0. We have consulted with our attorneys and believe that this action by 3DO is illegal." John Eastburn, COO for Crystal Dynamics, adds: "This would be a lot easier to swallow if (3DO) had met (its) commitments in building an installed base before imposing a price increase." *Even with the MDF, the 3DO

licensing arrangement remains the best deal in the industry" says McCaffrey. A view echoed by Rocket Science's CEO Steve Blank, who signed on with 3DO to release LoadStar after the MDF deal:



3DO monufacturers cry "enough" at news of \$200million losses over the next 15 months. insteed, the games developers here to pay

"This is simply 3D0 putting on its pants just like every other hardware vendor. Now 3D0 is on a par with everyone else."

NIXT Generation can only conclude that 3DO is garathing all it's got on one by post this holiday season. The MDF is not a long-term plan for success, and finely healwhin his to realize the danger of determing software support. But right now he has no choice. "If I don't have software companies, that's one problem. But that's not as by a problem as if I ddn't have hardware manufacturers, he commended.

"H Trip gets past this Christmas still breathing, then 3D0 will be an extremely viable platform in 1995" surmises Blank. But if the marketing generated by MDF fals to push 3D0 sales over 500,000, then — having secniced a lot of developer goodwill — it could be game over for 3D0.



"If I don't have software companies, that's one problem. But that's not as big a problem as if I didn't have hardware manufacturers"

Arcadia

An insider's view of the coin-op business, and how it affects the games you play



Marcus Webb is the editor-in-chief of RePlay magazine, the US's leading trade amusement magazine

by Marcus Webb

Arcade owners vote Killer Instinct best new game

At the recent Amusement & Music Operators Association (AMOA) expo in San Anterior, Texas, the men and women who place coin-op video games in srcades and other public locations voted Mickey Mig. Si Millor Institute in Shest new game." of the fell. It's a major honor, but almost as optical as the Oscaris.

out affect as placed as the Vocain.
For example, does the several mean Allier instinct is more fain to play than Allier instinct is more fain to play than Allier instinct is more fain to play that an Allier in Allier instinct in the Allier instinct in



Killer Instinct voted " most likely to make wedges of cash" by A

National Amusement Network

Ready to turn your vulcogame skills into cash and prises? Strating a 1995, Strating a 1995, a nationavide electronic strade will enable players to compete in local, regional players to compete in local, regional control wisegame tournaments. A newsy formed corporation called the hallow formed corporation called the hallow control Ansusement Network, Inc. (NAN) plans to use moderate to like up to 100,000 conceptrated giames into a very sophisticated certain managing by application of certain managing by the covered of the vertical singuist private district size of the vertical size of the ve

Pisyers will use joystick and buttons to log roth NNN system, enterling name, adhess and demographic data. A tournament on a specific game could take place over two or three days with players competing solo for best scores. At the end of the tournament, NNN's central computer will collect the scores, compare them, and decide the winners.

Williams/Bally-Midway is providing the first games for NANI tournaments. Several other major videogame factories have said they're also interested in participating, Limited testing of the network was slated to start in Kensas and Ohio last November, In additional to tournaments, NNN will also offer official league play, merchandise coupons, membership cards for players, and possibly even new facancies.

Sega Buys Data East Pinball

Signit 18 comps statisticy has normated the US-based certail demons of that East. The bayes Economic Secure I elevated to the special Economic Secure I elevated to the selfing price was \$50 million. The capitalition more them doubles Segrit US market sharp, used Segrit USF samet sharp and revenues as 950 million and botal East Périal accounts for 74% (about 950 million) and Data East Périal accounts for 74% (about 950 million) and Data East Evitail Secure Secu

Coin-op Wrestles With Ratings

After a year of threats and public pressure, the U.S. Congress has succeeded in feoring videogame manufacturers to adopt "voluntary" radings for the consumer market. The AMON feors an independent ratings system. But most con-operated videogame factores have never filed the idea very much and fear that ratings could harm either sales or cermings.

For the record, the American Amusement Machine Association (AMAA) has assured Congress It supports independent content review and independent labeling. Officially, coincy adveogree factories are "consulting" about how to adapt the new, home-game rating system to areade products.

Privately, however, leading factory exces loops Congress will be actuated with ratiops for the 55 billing layer home market, and will eventually forget about rating the \$50,000 or so come or videos which are gold annually in the USA. Other hope a self-diministered rating system will suffice, even though Congressional leaders strongly reject that appreach. AMAY own predicted, himself not a manufacturing exce, has predicted that create game makers will eventually be forced to do casercially that above Congress works.

Videogame Factories Plan Their Own **Arcade Networks**

Will videogame networks ever reach the point where an arcade player in, say, New York could compete directly in "real time" against a player in a California arcade on a fighting or driving game? Insiders say such time as 5 Segs, Namo and Williams/Bally-Mildrwy are stready doing the R&D, and one of these arcade glants is expected to brime its finitive deviated by visited to your driving arcades by 1841-1959.

Sega publicly demonstrated remote interactive gameplay in Japan a year ago, using ISN phone lines to link a driving game to its Osaka branch office with an identical unit in its Tokyo headquarters.

VR32: a clearer Nintendo's 32bit picture emerges 'Virtual Boy' is

scheduled for worldwide shipout in April next year

Nintendo's 32bit VR32 system has been the subject of much speculation, conjecture and general misunderstanding. Nintendo plans to dispel all preconceptions when it unveils the hardware at the Shoshinkai show in Tokyo on November 15, a full six months before it is expected to go on sale.

Pinisham details are still elusive, but it is now believed that the VR32 'Virtual Boy' will be a portable, batteryoperated unit which accents cartridges and will either be attached by a lead to a visor headset (see below), or come as a lap-held integrated unit.

generated stereoscopic projection technology developed by an Reflection Technology

Nintendo has tied the knot with one of two alternative players in the VR industry IO. manufacturer of fully engineered HMDs that uses 'non-immersive' technology - that is, it's

The display will be based on an oscillating mirror-

possible to see around and through the HMD, which reduces the danders of tripping over the dog, falling in the bath etc. But a conflict of interest (Virtual IO

Nintendo's deal with

Reflection Technology was

The first was Virtual

announced, pundits had

previously believed that

is developing an HMD for TCI's Sega Channel) presumably stood in the way. The second company, a Redmond based (think about it) outfit called RPI, was known to hold some important VR

patents. The technology had never been seen in public, however, and the company was known to have been involved in senous negotiations with another major hardware manufacturer

Whether 'Virtual Boy' will feature a HMD is still the major undisclosed issue Many pundits believe Nintendo will sty away from a HMD for fear of potentially massive health risks (anyone remember financial incentives for producing the world's first half-decent VR setup may be

> distance lap-held integrated unit seems a lot more likely Expect the full NEXT





the VR32 will make its do



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Generator



by Mark James Ramshaw

A look behind the scenes of game development, rumor, gossip and scandal

Of day to you. To Man, leaves femaless, and this is any year and title come of Part Measuretian register. Navig recently females a cost producing game to formy Payl March Navig recently females a cost producing game to formy Payl March Navig recently females and the payl Payl March Navig Recently the March Navig Recent Navig Recently the Navig Recent Navig Recently Navig Recently the March Navig Recently the Navig Recently Navig Recently the March Navig Recently Navi

producing software for everything — Sony PS-X, Sega Satum, 32X, Jaguer CD, Philips' CD-I and PC CD-ROM."
Virgin's commitment to all formats reflects the fact that the industry really land surror which machines will dominate. It also habitates to relative contribution of enthusing on the satisfact produces and the production of the contribution of the satisfact on the satisfact.

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Mork Remibaw is a free-lense journelist and games designer. On a glascole. He can be contacted via the NEXT Generation offices

blast with the rest of the issue

Datebook

December

Electrotic Learning Fair December 2.4, 1994, San Jose, CA, San Jose Convention Center. Education software trade show, sponsored by many high-tech firms. K-12 grades will be represented in all subject matters; in 12 simulation dissel classrooms, 20 to 30 workstations will be available for hands on use, Open to the public. Presented by the San Jose Mercury Mess. General other number for more first (469) 217-3797.

January

UPDAE "95- High-Resolution Digital Imaging Show Jinsuiry 1921, 1995. Gong Boach CA. Location Long Beach CA. Comprehen Jensey Froduced by the people who give you the Glercherg Festival, Updae operar this year. Historiotal Financial Resolution Implies the Society Resolution graphers—in-Including game animation and graphics. A showcase spenificially designed for high resolution graphers are discharge products. A conference with concurrently, Admission prices \$10-500, Call JCJ Properties and Guerbeige Exposurions at (17.14) 92.315.

February

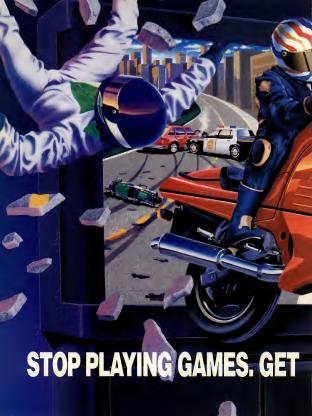
Intermedia '98 February 7-9, 1996 San Francisco, CA. Moscone Center.
Closed to the public, Leading CD-RMM and multimedia tradesions showcase for hardware mandischerer and multimedia software publishers. There will be a show floor for manufacturers and a concurrent conference with booths, speakers, parell discussions and industry leaders. Total attendees forecasted at 23,000. For more information call Read Eshibition Co. at (203) 328,2554.

March

Foliablewest March 13.18, 1995 Chicago, IL Located at the sherator Chicago Hesta and Forest as remigione and book publishing Chicago Hesta and Forest as remigione and book publishing shortests. Folia Story's 200magn and book publishing published to the property of the p

Software Publishers' Association Spring Sympostum, 1995, Sm Diego, CA March 11-15. Sm Diego Marchi Hotel in the Manna. There will be seminars, heavy networking, and more. Not open to the public, Primarily CD-ROM based entertainment, consumer and business applications, one carridge products will be available. Mostly panels, CODY's gala at the end. Ask for the meetings department at (202) 45-21600.

SHOW ORGANIZERS: If your show san't listed here, it's because you haven't told NEXT Generation abold it. Do so by calling (415) 665 1688, or FAX information to (415) 669-6179, or send datale to DATEBOOK, NEXT Generation, 1590 Old Bayshore Highway, Suita 210, Britinsane, Os 50440.)





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dimension. The R-E-A-L 3DO system even plays audio CDs, photo CDs and soon video CDs.* This is the one system that makes it all feel real

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continues. If this game was any more real, you'd have motorcycle tracks on your back. So stop playing games. Start playing for

real. To connect with the dealer nearest you. call: 1-800-REAL-3DO, ext. 123.



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Players

1995 will see the hardest fought system wars of all time. As 3DO, Atari and Philips scramble for market share, Sony, Nintendo and Sega circle for the kill. So who's going to come out on top? **NEXT Generation** profiles the contenders...

regress is worklink. And as the age of 25mt deminance datas to a close, all oyes and possible from on the laute. The menistance of the Coppining vitesses for the last 15 months is testimated to the fact that games are demanding more — and with a decess in contract the latest that the contract that t

they're designed purely for high-end games playing.
Each of the rine systems profiled over the following pages is aiming for the top, but the market can only support three, maybe four mass-market formats. Some will fail. The question is, of course, which are going to make the cut? The following profiles am to evaluate each systems as it stands today.

Some are already in the stores, some aren't scheduled for release until a further 12 months. All will be after your investment in the scramble for market shires. This is why you need MEXT Generation. Because when country in the crossfer of the bisness challenge when country in the crossfer of the bisness challenge was every vun need reliable information.

CD-i



Philips' accidental games machine could, just possibly, be the tortoise in a field of hares...



riginally held back by a clumsy design, a lack of quality games, and a high price point, Philips has recently carried out repair work on all areas for CD-i. But - as the core technology inside

have mainstreamed

CD-i looks back on its tenth birthday - is it too late to make a real impact? As opposed to the VCR-like 220, the sleeker

450 model sells for \$299. It actually looks like a cames machine and is supported by a library They sidelined games

of around 150 titles - the majority of developement when they should which are games The 220 model remains at \$499.

boasts a few extra features but uses exactly the same technology. There is also a Magnavox unit at \$399.

It is Philips' realization of the importance of the games market that has led to its rethinking on CD-I.A senior company executive candidly admitted recently: "I think it's fair to say that Philips didn't properly appreciate the key role of games in its software catalog They sidelined games development when they should have mainstreamed it." Philips will be hoping that CD-I's reputation as a leading-edge games machine will be boosted by the arrival of Burn:Cycle (reviewed page 94) released at the end of October.

The firm bundled the title - which it describes as "the first real CD-i blockbuster" with the 450 unit in November The 450 remained at \$299. Meanwhile, the CD-i 550 shipped in late October The 'new' model is actually just the 450 unit bundled with Philips' DV cartridge and sells for \$499. The DV cartridge is currently available on its own for \$249.

Halfway through '94, Philips' global installed base was estimated at around 400,000. It claims it is still on target to reach its goal of one million CD-i units sold by the end of the year. CD-i will

attempt to increase its mass market penetration in '95 when it launches a TV with CD-i built-in. and a hi-fi system with CD-i replacing the standard CD audio unit. Both are due in the first quarter of '95.

In truth, CD-i's only game-playing trump card is the DV cartridge, which enables moviequality video footage to appear in its titles. Of course, the gameplay value of games featuring extensive use of FMV (Full Motion Video) is perennially questioned and hence this one 'advantage' of the CD-i turns into something of an albatross: Philips finds itself in the position of

not only having to defend itself as a

viable gaming system, but also defending a struggling new game genre. So how strong a card this really is

remains to be seen CD-i's best hope for continued game support is to get units into homes for other reasons; for movie CDs photo CDs or audio units. A stable

games market will then inevitably follow Launch: 550 (450 bundled with DV cartridge) shipped late October, 1994. The 450 bundled with Burn:Cycle shipped in early November

Price: 550 (450 bundled with DV cartridge) is \$499. The 450 bundled with Burn:Cycle is \$299



Philips is plealeg hopes on Farm-Cycle. Read the deficitive review on page 94



(nort of) from CD-i's DV cartridge



uses of FMV ie a game, only on CD-i

tech specs

CD-i CPU: 68,070 running at 15.5 MHz

Graphics: Various modes Colors: True color from a palette of 16.7 million Memory: 1.5 Mbits

Resolution: 384x280 - 768x560 Sound: ADPCM eight channels MPEG cart offered as option

Genesis 32X



"Definitely not just a stopgap." Sega pumps up the Genesis — again

ev softwar



UK-based Probe promises an arcade-



ry. Shame it's not full screen



-like feel than the Genesis gr



the wane, but Seea seems determined to keep the machine alive well into '95 and beyond. This will be done mainly through the plug-in peripheral, 32X, It's due for launch around the globe in time

for the holidays. In the US it's priced at \$159. The problem is that no one really knows Sega's thinking behind the 32X; Is it genuinely a

> by far the cheapest ticket to the next generation.

the bigger prize, Saturn? Either way, Sega scheduled for six titles to be available at launch and are promising plenty more to come throughout the war. Of the first crop. the three most promising are Star Wars Arcade, Doom, and Virtua Racing Deluxe, All will be 32X cartridges, running only on Genesis units that have the peripheral attached, 32X CDs should

tech specs

32X

platform that will be

year's time, or simply a

1994 mind and market

share in the absence of

way of grabbing extra

committed to in a

CPU: two Hitachi 32bit RISC processors running at 23MHz/40MIPS Co-processing: Genesis 68,000 & new VDP Graphics: RISC processors enabling 50,000 polygons/sec Colors: 32,768 simultaneous colors

Memory: 4Mbit RAM (plus Genesis and Sega CD capacity) Video: Able to overlay a plane of graphics over standard Genesis video Audio: The stereo and digital audio are

mixed with Genesis sound

come through in the new year. Again, these will only run on Sega CD combos which have the 32X attached - clumsy, but it works.

Third party support is due to the market in the first half of 1995, but most publishers seem to be limiting their commitment to what they see as merely a stopgap measure. Electronic Arts, for instance, without doubt the most prolific Genesis publisher of the past few years, only has plans for one or two 32X titles.

That said, it's worth pointing out that one of those titles will be the fourth in the series of Strike games (after Desert, Jungle and Urban). It's provisionally titled Strike C.O.R.E. Set in 2008, the

game involves a threat from alien - rather than human — foes and it will be exclusive to 32X when it's bunched in the second half of '9S.

Another big name lined up for 32X is Mortal Kambat II which has just been completed in the UK and, according to a source at the development company Probe, "looks and plays exactly like the coin-op.

Sega still plans to bring out an all-in-one Genesis with 32X and CD built-in sometime in '9S, but isn't making any official announcements on the progress of the project. The slow sales of CD-X (a combination Sega CD and Genesis unit) may be triggering caution.

Proof of just how efficient pushing the Genesis still further will be proven in the software. But system bottlenecks are destined to ensure that the law of diminishing returns applies here, just as it applies to those who'd install a turbocharger on a supermarket cart. But at \$159, the 32X offers by far the cheapest ticket to the next generation, and, until the launch of Saturn, this unit will benefit from 100% of Sega's considerable marketine muscle.

LAUNCH: in the US, Europe and Japan, the unit shipped in November 1994. Integrated 32X/Sega CD/Genesis will ship sometime in 1995

PRICE: \$159 for a stand-alone unit



Jaguar



Atari's 64bit attempt to recapture the glory days of the VCS

suffers from a cruelly ironic lack of software

n the early 1980s, Atari's worldconquering VCS died, smothered under an avalanche of poor quality games. Videogame lore has it that there were more cooles of E.T.

The Extra Terrestriol manufactured than there were VCSs in existence. Going into 1995, the main problem for Atari's reasonably impressive cart-playing sort-of-64bit cart (see tech specs) has been a lack of software. Up until this holiday season, there have been just

care (see teen spees) has been a lack of software. Up until this holiday season, there have been just seven titles available for the machine, although the firm is hoping to have about 30 on the market in time for the holiday season.

The highlight of this holiday's release schedule is undoubtedly Alen Vs. Predator, probably the first game (other than the sturning Tempest 2000) to really show what Jaguar can do. But there's precious little else to get excited about.

A jugar CD drive was due for release in late November: Exp trode at \$199 and only support will be limited this year. At launch time support will be limited this year. At launch time there will be four lappar CD-ROM fullers. Demolition Mon, Bottlemorph, Size Lightoniag and Highlander. The drive will use Cinegus for compression of video onto CD, but Atari does have plants or lease an MPG-compatible cartridge in early 1995 to enable Video CD standard titles to be played.

The firm's problems remain a lack of software and famility affect in claim to a software problem is and famility affect incline the software problem is already being remedied by sides such as Alen VI. Prodostor and a multiwer of third party sides. But having suffered financially in the last decade (remember the firm harst really) that a global mass market product since the VCS). Astra simply document of the musel to compete in market-spending terms with giants like Sony and Nittendo. A recent bouns, however, came in

September when a deal was announced by which Sega is paying Atant \$50 million over seven years for the use of Atan patents, and additionally buying \$40 million of Atari stock. "The increased cash position will be used, among other hilps, to improve our marketing position this fall" said Sam Tramiel, president and CEO of Atari Corp.

Tramiel, president and CEO of Atari Corp.
If 3DO's Trip Hawkins is correct, however,
when he says that "you need \$500 million in
capital to be a real competitor" (see page 6) then

...Jaguar will have to succeed largely on shipping out first... merely small change.
You wouldn't see
NEXT Generation
turn it down, however.
The Jaguar will
have to succeed largely
on shipping out first,

this windfall is still

on shipping out first, and on its own technical merits — merits that will only become apparent when the software support for the machine increases dramatically in both quality and quantity.

LAUNCH: CD drive shipped November 1994

PRICE: Jaguar priced at \$249.95



laguar

CPUE. Motorola MC68000
Graphics: Two custom-bault 64bit RISC
processors; high speed Blitter GFX chip
with hardware support for Z-buffering and
Goursad shading; custom graphics
processor with 27 MIPS
Memory; 16 Mistis RAM
Colors: True color palette of 16.7 million
Sound: DSP with 16bit DAC

Resolution: Up to 720x576 MPEG offered as peripheral option in '95 Format: Cartridge with 8xJPEG compression 300k/sec CD drive about to be learning. key software

Alien Vs. Predator — Jaguar's flagship title for the year shead



Tempest 2000 proves that old games can be taught new tricks. Classic stuff



nd, of course, the inevitable Doom,

NEC FX



The PC Engine outsold Sega's Genesis in Japan. but now NEC looks for a more global platform



ofer features beautifully sha es, how it plays isn't known

he FX, a curious looking machine resembling a PC tower. is NEC's latest attempt to muscle into the global games market. The 32bit CD machine has been in development for

more than four years now and is an ambitious replacement for the PC Engine which made little headway outside of Japan

Released in the US under the name of TurboGrafx, the PC Engine maintained a small cult following of gamers reliant on whatever software was imported from across the Pacific. In all honests, it's unlikely that the FX will

ever manage much greater penetration into the mainstream, but as long as the machine sells well enough in NEC's homeland to warrant

developers' attention, then you can be sure of a constant trickle of games - just enough to keep small pockets of diehard US gamers happy. Those gamers already bitten by the NEC bug will be disappointed to learn that CD PC

Engine software will not run on the new offering. It is, however, compatible with NEC's PC-98 and can be used as a CD drive for the machine.

FX was due to hit the Japanese market in November, but NEC has not made any decision yet about launching in either the US or Europe. The unit is priced at the yen equivalent of around \$400, but NEC believes it has

to bring the price down considerably when it decides to attack the U5 market So far, there are only a handful of third party

publishers, all of which are lapanese companies. In fact. very little is known about the initial software support. NEC claims that around

15 titles are in development, but is giving away very few details about individual games. Four or five should be available before the holidays. NEC's forecasts for FX sales are not too bitious. It expects to sell 50,000 units in lapan

its first year: Not the kind of numbers to set Sony, Nintendo and Sega running to the corporate privy in terror So while the NEC FX may well prove to be

a competent gaming platform, modest ambition, a strange design and a lack of software support do, however, seem to limit its chances of being the first machine to bring NEC any real games market success beyond the limits of its home country.

NEXT Generation will continue to cover products for the FX until it is possible to determine if anyone really cares

LAUNCH: November 1994 in Japan. No plans vet for the US and Europe

PRICE: Yen equivalent of approximately \$400









tech specs

NEC FX

CPU: 32bit RISC processor Memory: Main 2Mbit; VRAM 1.25 Mb, ROM 1MB, CD buffer 256Kb Back-up memory: 32K SRAM Graphics: 16,770,000 colors: 320x240 maximum resolution: maximum sprites 128; maximum

background screens 7 Rotation/ enlargement / reduction / transparent / fade/priority Image processor. JPEG; horizontal

scroiling Format: FX CD, audio CD, CD+G. Photo CD

Neo-Geo SNK embraces CDs as the

savior of the Neo-Geo. But can CDs deliver the same arcade feel?

he prohibitive cost of software (some titles more than \$200) has always kept SNK's cartplaying Neo-Geo very much in the specialist category: a luxury item for extremely dedicated

and extremely wealthy earners The recent launch of a CD unit in Japan, however, could finally introduce this impressive technology to the mass market. The machine has just been launched in Japan as a limited edition (30,000 units) front-loading model with a price tag of just under ¥\$0.000.

equivalent to approximately \$\$25 in US currency.

Encouraged by the response from consumers and determined to secure continuing software support, the firm has now announced

that it will manufacture a top-loading system to be made generally available at a lower price, probably in December '95.

Internally, the only difference between the CD and cart version is the addition of seven merabtyes of DRAM and a slight tweaking of VRAM and DRAM. The transition from cartridge to compact disc has proven difficult for everyone. these new hardware features are simply SNK's solution to the problem of speed.

The most crucial advantage of CD is the more affordable software price. Neo-Geo carts are spectacular because of their sheer size - some weighed in at over ISO Mbits. All that memory costs an awful lot of money. And yet, even the largest games will fit into a CD and so

will carry a price tag of between \$50-\$80, equivalent to about £30-£50. Unfortunately for existing Neo-Geo owners, the CD drive is not being offered as an upgrade but as a stand-alone machine. Still, anyone rich enough to have bought the original probably won't halk at more investment.

SNK's plan is to release cart and CD versions of all its titles, carts appearing first, followed by CDs within a month or so after It is also busily converting many of its old cart hits to CD

So far SNK can only claim two third party publishers. But with a large library of its own titles, SNK already has accumulated 2S Neo-Geo CD titles. The firm hasn't announced any plans for launch in the US or Europe, but it looks likely that both territories will be targeted next year.

Question marks hang over how a Neo-Geo CD game will 'feel,' Certainly the main attraction with Neo-Geo's cartridges is the arcade-perfect speed, look and gameplay. If the addition of a CD drive messes with this popular (if not necessarily

successful) "bringing the arcade game home" feature,

then it is difficult to see how SNK can really compete with the big boys.

Neo-Geo CD games can take up to 50 seconds to load from CD to RAM LAUNCH: Limited edition version already available in

lapan. Lower cost top-loader released in December: Should hit US and Europe in '95

PRICE: Currently \$520 (¥49,800), but the new model will be cheaper

Neo-Geo CD CPU: 16bit 68000running at 12MHz,

of their size.

supported by 4MHz Z80 Graphics: Three simultaneous scrolling play fields, up to 380 hardware sprites and some hardware scaling support Colors: 4,096 colors on screen from a 16hit nellette

Memory: Neo Geo CD adds: 430K VRAM, 64K SRAM 56Mbits DRAM Sound: 13-channel Yamaha 2610 chip Format: CD









e fighting games of 1994



dames will be re-rel-

PlayStation

With the most powerful gaming system ever devised, Sony's grip on the world's leisure time looks certain to tighten...



he Sony PlayStation is currently many insider's 'hot cicket,' guaranteed to make a huge impact since its November launch in Japan, Sony has reputedly invested \$500 million and the marketine hash's even

reputedly invested \$500 million in the project — and the marketing hasn't even started. The feeling is that Sony will spend whatever it takes to make PlayStation a success.

Go figure...

PlayStation is Sony's second bite into the videorame pic: in 1988, a collaboration with

Nintendo to develop a SNES compatible CD drive failed to reach fruition. But the lure of huge potential profits ensured that all R&D and industry connections gleaned from this abortive foray were kept on a back burner.

And now Sony is turning up the heat. One insider at Sony Europe recently noted: "I don't think it's an exaggeration to say that this is Sony's



most important launch ever. It won't fall." Sory is predicting sales of 3 million hardware untes in the first. It months is lippan allowe. Ambidious! Highe not. It is already clear that Sory lan't going to mind the sales of the sales of the sales of the months. The circle peech are glimpted of offware so far unveiled have had both game players and developers. (We got the development &t, tearted fiddling around and in evo weeks had something like Redd/édels und running!" begge for more.

Strong software support is essential to success, and Sony in being for IS cities to accompany the lipanese launch — including three including three publishing stable. With the addition of strong support from Namco, Komani, and Capporn, fill are planning areade cabiness unlikely PsySation technology), and the acquilation of UK-based developers, Psygnois, Sony promises to provide not just the chips, but also the salas.

Sony isn't saying how many titles it hopes to have in time for a US launch in the third quarter of 1995, but instead points to the 400 developers and publishers signed up the 1994/Stazion licensees. A software avalanche seems guzzanteed, with one major coup already secured when coloine kines Williams announced that it.



Motor Tool Grand Price a racer running at 60fps



button d-pad and top buttons

tech specs

PlayStation

CPU: R3000A 32bit RISC chip @ 33MHz
3D Geometry Engine (High-speed matrix

Consideration (Engine Help-Appear matter)
Consideration (Engine Help-Appear matter)
Consideration (Engine Engine E

VRAM — 8 Mbits Sound RAM — 4 Mbits CD-ROM buffer — 256K Operating System ROM — 4 Mbits RAM cards for data saving

Snatching this sure-fire crowd-pleaser from under the nose of Nintendo is indicative of both Sony's bullish plans, and the eagerness of the industry to do business with the company. Nintendo had previously signed a broad alliance

with Williams - including the joint production of Cruis'n USA and Killer Instinct -- that seemed set to fuel Ultra 64's progress with a string of coinop hits. Although this deal remains in place and Nintendo will be publishing some Williams games exclusively on Ultra - MK3 isn't one of them. An MPEG-compatible, Video-CD peripheral

to be sold separately at very low cost is currently being considered by the firm, perhaps as a nod toward multimedia ambitions in the future (certainly Sony's got the intellectually-copyrighted connections) or just to keep up with the competition. Either way, this will complement the innovative joypads and the steering wheel

peripheral planned for launch with PlayStation Ridge

Rocer



So what's it also the salsa. going to cost? As NEXT Generation

goes to press, there's no fixed news. It will certainly be under \$0,000 yen (\$325), but the rumor is that it could be considerably lower. Sony has pulled off pricing surprises in consumer electronics before, and a US price of under \$250 can't be ruled out. Sega and Nintendo execs will have been trembling in their boots as rumors of Sony's willingness to "stand a \$100 loss on each hardware unit" (the company will make it all back on software sales) started circulating last month.

Games look set to sell at around \$40-50.

- September '95

y Ridge Racer for PlayStation, Na controller with a revolutionary twisting central joint. Available separately



although how financially attractive third party licensing and manufacturing deals will be (huge sales projections aside) remains to be seen.

There are a couple of interesting extra features currently in the PlayStation pipeline: I) Its potential for multiplayer machine link-ups; the base unit will come complete with a serial lead enabling it to be connected to another machine (there are also plans for an adaptor that will enable up to eight machines to be linked) essential for such games as Namco's CyberSled or, indeed, Ridge Rocer; and 2) there will also be plugin RAM cards on which players can save game scores and data.

It's hard to overestimate the amount of

grass roots support PlayStation has in the ...Sony promises to provide development community. Whether this is founded on considered opinion, a desire to work with anyone but Sega or Nintendo (although

there's no evidence that Sony will be any less rigid in quality assurance or third party licensing deals) or simply an excitement born of playing with any hot new toy, is unknown. But it is as near to an accurate barometer of who the smart money is on as anything else.

Those who would talk down PlayStation point to Sony's lack of experience in the game industry and an apparant blase attitude to the need for quality software (the first Sony Imagesoft products were dreadful, and they

haven't set the movie world alight yet either). But all in all, a very, very

impressive package. Just don't mention Betamex. LAUNCH DATES: lagan November '94. US and Europe

PRICE: As NEXT Generation went to press,

Sony was in a stand-off with Sega, neither one wishing to be the first to announce the Japanese price for their next machines. PlayStation could eventually hit the US at \$250-\$300 or maybe even less



e Kacer, ecopsee by Daytona and co's own Ace Driver, but still great





ige of Sony'e mult

Saturn

Amid rumors of a back-to-the-drawing board redesign, Sega keeps its 32bit cards close to its chest



Japan this holiday season, Saturn remains shrouded in mystery and Sera of America remains strangely muted on the subject (although as any car dealer will explain "you don't advertise '95 models while you've got a showroom full of "94," and right now

Sega claims its focus is solely on 32X). So far it is mainly other people who're doing the talking. What they are saying is that Sega has spent the last nine months or so playing catch-up with Sony after a publisher-friend tipped Sega off about the power of PlayStation, New specs and development tools only recently arrived with third parties, superseding Sega's original description of the project. The main difference between them is apparently the addition of more dedicated processors taking work away from the two CPUs.

Certainly, the original Saturn technology was old. Commenting on the US launch of 3DO in tech specs

1993, Sega of America President Tom Kalinske

revealed that "we have a more powerful machine already waiting in the wings, but the time's not right yet." But these last minute improvements while no doubt improving Saturn's capabilities may mean a problem with initial software support either being thin on the ground, or not showing Saturn's true potential

This is thought to be the issue at the heart of an intense debate within Sega. There are also reports of debate about when Saturn should be launched. While a spring '9S launch date was suggested in the US, Kalinske is now understood to be pushing Saturn's arrival to the latter half of the year. At that time, Sega will supposedly be awaiting stronger software support while relying on 32X to keep gamers excited. There is also a strong rumor the Saturn that appears in the US and Europe will actually be an enhanced version of the machine that is about to hit Japan

Sources close to Sega, however, insist that there will be no major overhaul and that any









CPU: Two Hitachi SH2 32bit RISC chips running at 27MHz/50 MIPS Co-processing: Hitachi SH1, 24bit DSP, Motorola 68000, video processor Memory: 36 Mbits Color: A true 16.7 million color palette Graphics: 900,000 polygons/sec; Gouraud shading, texture mapping, Custom sprites and scrolling engine; scaling and rotation Sound: 16bit 68EC000, PCM 32 channels, FM eight channels Format: CD (300K/sec) It is thought that Sega may offer MPFG compatibility as an add-on soon after





on Eighter - read the exclusive NEXT Gen ration report on Sega's prime fighter on page 64

changes will amount to no more that "a bit of tweaking" to boost Saturn's ability to handle polygons - an area where Saturn ("inspired" by Sega's AMI arcade board) is already strong.

Indeed, the most impressive software will initially come from Sega's conversions of its own coin-op titles such as Virtuo Fighting and Doytono USA. Yu Suzuki and the AM2 development team are very much Saturn's ace in the hole. And because Saturn supposedly shares some of the same technology that Sega's arcade machines use, the firm is hot to promote the idea that what you can play in the arcade today, you will be playing at home on Saturn, tomorrow. But don't kid yourself, the Daytona USA seen in the arcade is leaps ahead in terms of processing

power, in comparison to the stripped down Saturn There will, however, be a Saturn version of the Sand

coin-op. Some original work aimed specifically at Saturn is also under way. One title.

Clockwark Knight, has been in development for more than a year and is set to be a flagship game for the format. There is very little word from third parties on Saturn. This is probably due to the late arrival of development tools and inevitable confusion over the possibility of Mark 2, even before the launch of Mark I.

Another interesting feature of the whole Saturn project is The Sega Channel - Sega's interactive TV, play-by-cable system. Currently on test in 12 sites in the US and Japan, and due for national opening "sometime in December." The Sega Channel is a joint venture between Sega,

Time Warner and TCI, the cable company, It's widely believed that the Channel's games-ondemand, multi-user gaming, and preview functions could well revolutionize gaming and push Saturn to the top of the heap. It's all about connections

If all this sounds pessimistic, then it could simply be through a lack of reliable information. Whatever Sega has nailed down for Saturn in terms of a US release, it's keeping the information firmly hidden in the shadow of 32X. But with Virtua Fighters Virtua Racing Wine Wars

Desert Tank, Daytona Rocing and Virtua Cop all available for straightforward (if not automatic)

There are also reports of d

launched in the vario

conversion, Saturn is not lacking a respectable software library. And these suys are Sera, it's not like they're lacking the knowledge or the experience to make this happen.

More will be known after the Japanese launch of Saturn this holiday season. Read the full report in next month's NEXT Generation.

LAUNCH: Japan Isunch due in the holiday season; no firm news on US or European launches

PRICE: Again, no official word yet. In Japan it is expected to launch at a \$400 yen equivalent



turn VP's resolution has recently on raised from 320x224 to 640x224



eckwork Knight — Soga's brand me hero fresh from the toy cur



Ultra 64

Nintendo's joint venture with Silicon Graphics yields plans for a 64bit console that could be ahead of its time...



cheduled for a September 1995 debut (in both Japan and the US), Nintendo's 64bit console will probably be the last to enter the market. But the firm is determined it will arrive with

enough impact to wipe out any lead that Segs and Sony might build. So is history set to repeat itself as Nintendo once more misses the boat (the 16bit SNES never got close to catching up with the first-out-the-blocks Genesis), or is Nintendo simply refusing to be rushed?

The problem is price. Nintendo has promised to bring Ultra 64 in under \$250 (\$249.99, anyone?), but this will be difficult. 5GI's 'Indy' Workstation (the heart of Ultra 64) retailed for \$6,500 at the announcement of "Project Reality" (as the joint venture was dubbed), and economies of scale aren't limitless. Already a CD drive has been sacrificed - "sticking to cartridges reduces the price by at least \$150" - comments Peter Main, Nintendo of America's sales and marketing director. But what else need be left behind as the dream machine is stripped? Of course, Nintendo claims it prefers

cartridges anyway. But a CD drive for the Ultra 64 looks almost certain for launching after the arrival of the base unit - although probably not



before the 1995 holiday season. Main claims that: "Nintendo certainly has not turned its back on CDs.We've already done a lot of work in that area, but we don't believe that, as yet, the public has been convinced CDs can deliver the sort of games that they want.

"Ultra 64 has been designed to allow for a CD add-on and we will make a move when CD fulfills one of two criteria: Either we can deliver a drive at the right price - which plays games at the right speed - or there is a demand for products that simply don't require speed."

There you have it Main also revealed that any Ultra 64 CD drive would probably come with a price tag of around \$150.

Ultra 64 arcade cabinets have already been launched under the Midway label: Cruis'n USA and Killer Instinct are now on the streets Nintendo insists that home versions will be "pixel-perfect" replicas, the company added that in the case of Cruis'n, the console version will actually be better than the arcade game as full Ultra 64 tech-specs weren't available when work started (a Williams 32bit board was used in the absence of a completed 64bit Nintendo setup).

In fact, there's controversy as to if there's any similarity at all between the innards of these Williams coin-ops and the final Ultra 64 hardware. But at the very least, there are two solid game designs in place for which Nintendo has exclusive rights

So far, only three third party companies have signed up other than Williams - top developers DMA, Rare, and leading 5NES publisher Acclaim. Two more will be announced before year's end. Nintendo claims the initial software line-up "will

tech specs

Ultra 64

CPU: 64bit R4200 MIPS RISC processor nning at 100MHz

Graphics: Real time anti-aliased texture mapping of 100,000 polygons per second, true colors from palette of 16.7 million Display: High-res HDTV Sound: CD-quality

Storage: Cartridges, at least 100 Mbit capacity (although initially the largest

will probably be 32 Meg)





Killer isotiset, the creads smesh of the holidays, by hardly the "questum isop in gamaplaying" promised and creative force behind StarFox, DKC and SuperMorio carts) is rumored to be busy on a

64bit game starring some Brooklyn plumber. He's also been quoted as having a desire to work on a

version of Pilot Wings for Ultra 64, and now news

Definitely one to look forward to, as long as it

doesn't result in having to

The average size

reaches us that his wish has been fulfilled.

emphasize quality, not quantity." Final development tools, available in January, will herald additions to the list of elite firms that have been 'in' on Ultra from the ground floor. But even then there won't be an avalanche of third parties.

"We're not looking for 25 good titles, we're looking for a handful of killer. breakthrough games, each one having no parallel in anything that has gone before," says Peter Main. "Success in the next generation is based on gameokying, not just

delivering a quantum leap in horsepower in hardware."

Ironical then, is the news that the only titles confirmed for the launch of Ultra 64 are Cruis'n and Killer Instinct — a driving game and a fighting game, with plenty of parallels to lots of games before. It is known, however, that Rare has already started work on Donkey Kong Country 2 and that this may go straight and exclusively to Ultra rather than the SNES. Meanwhile, Nintendo Japan's Shigeru Miyamoto (the creator of Maria

Nintendo is claiming at carts are not a

wait longer for a new Maria game... , overpriced of the first batch of carts will be 24-32 Mbits. storage method. although Nintendo is

claiming that through the compression technology in the hardware, they will contain the equivalent of 100 Mbits of gaming. Whether this technology will also enable third party publishers to develop for the Ultra 64 as profitably as the CD-based systems remains to be seen; it's worth remembering that a CD costs less than \$1 to manufacture, a cartridge costs well over \$20. Either way, with Nintendo sticking to its guns and claiming that carts are not an outmoded, overpriced storage method in what

seems to be the 'CD age,' Ultra 64 games will cost roughly the same as current SNES titles, \$50-70.

When we find stoplights in Saturn's Daytona and PlayStation's Ridge Rocer as the result of disc accessing we'll know Nintendo was right...

LAUNCH DATES: Japan - Sep '95 US -- Sep '95 Europe - Nov '95

PRICE: The official word from Nintendo vet is that Ultra 64 will be under \$250



ars's Killer instinct — as except code fighter, coming to Ultre 60





lo's 64bit debut is in pe



3DO

Trip Hawkins' dream machine is here, it's now — but can 3D0 compete against the Japanese giants?



th a poor start in the U.S., a secondate start in Ispan, and an indifferent start in Europe. 3DO has so far failed to live up to its prelaunch type. Then again, talter up not be oncall of the firsh own making, Looking back, it's plain to see that everyone got fir too excited and once all of the firsh come from that was the first.

plain to see that everyone got far too excited and expected far too much from what was the first glimpse of life beyond the Genesis/SNES duopoly. Such is the price of pioneering, 3DO's CEO Trip Hawkins would no doubt say. Now the tide is turning, A series of price

cots. along with a range of orfuring growing in quantity and quality (Spathwaded by Beltcomic Arcs' Read Read and FRA international Socces, some encouraging projects from Crystal Dynamica and the morale-boosting — even if only in a "look, we can do it! Media way — completion of Capcomis Super Seer Fighter 2 Eurols, have given the format a more competition edge. The machine now selfs for \$359, half of no original \$759 based price, in \$350, his of noor resilistic.

This holiday there will be around 75 titles available for 3DO, the vast majority of which are games. And with nine more months having the market largely to itself — before the Japanese

giants close for the kill — 3DO is looking at a big opportunity to anchor itself for the storm ahead. (Read **NEXT Generation's** exclusive interview with 3DO CEO Trip Hawkins on Page 6).

3DO puts its worldwide installed base at around 200,000, but refuses to break the figure down into territories. The firm claims that there are 800 development systems in the field, that



Super Street Fighter 2 Turbo — a familiar bench-mark by which gamers can avaluate 3D0's performance

approximately 250 projects are in development, and that around 100 new titles will arrive in 95.

and that around 100 new titles will arrive in 75 Virtually all the major publishers in the world have now signed up as licensees. The notable exception is Accilim, which still has to convinced about 2DO's mass market potential. Just the one black sheep then, but a fairly significant one — and perhaps indicative of just how far 3DO has to go to reach mass-market status.

The November add-on MPEG cart should open up the Video CD library to the format. The peripheral will sell for \$249. Meanwhile, more hardware brands are on the way, in the US, Panasonick model was pioned by machines from Creative Labs in late October and

tech specs

Saturn

CPU: ARM 60 32bit RISC processor running at 12.5 MHz Graphics: Twin 32bit animation engines able to scale, rotate, warp and texturemap animation cels. True color from a palette of 16.7 million Memonrs 3Mbites

Resolution: 640x480 Sound: 16bit DSP FMV as add-on option



The PowerPC chip, heart a soul of 1995's MZ ndd-on 3DO, in the prime weepon Trip Hewkine' fight agains

Three 3DO machinen with three separate badges from three different menufacturess will soon appels stores. The 3DO Company machine independent menufactures to license 3DO technology, the

Goldstar in early November, Neither has announced pricing details yet. Sanyo has already released a unit in Japan but won't hit the US market until next year. Samsung and Toshiba also have plans for 3DO players but have yet to

release any details.

Almost everyone is hoping for a price war,

especially 3DO. Next autumn, the format will be boosted by the

Everyone's hoping for a price war, especially 3DO.

arrival of s
play-in accelerator called M2 (formerly known by
its codename 'Bulldog'). Developed in conjunction
with IBH, Motorois and Hassushira, the M2 is built
around a customized 46bit PowerPC chip. It has
been designed to enhance 3DO's polygon
processing power and, the firm claims, will make
3DO about five times more powerful than Sony's
PlayScation, Amplitous words infeditious word

There is no word on price yet, although Trip Hawkins has promised that it will be "competitive." Industry pundits expect M2 to arrive at aroud \$150 — any more may simply be unpalatable to the installed base of 3DO users. M2 will be initially available as a 3DO.

peripheral and the range of M2-specific software (that won't run on a standard 3DO without the add-on) will be limited. An all-in-one machine will be offered during '96 and will run alongside the current 3DO which will, at that point, be selling at a lower price as an entry level option.

That's if 3DO lasts as a serious contender

Many game developers are looking at 3DO's performance this holiday season as a make-onbreak decision time for further development. And arready, some publishers have expressed distatishaction with their returns on expensive development investments (32bit multimedia titles featuring PMV more labor-intensive graphics and featuring PMV more labor-intensive graphics and

development retooling doesn't come cheap). But let's not underestimate 3DO's big trump

cards: I) it's here now? I) we know exactly how much it costs: I) some great games are already on the shelves. An insider offered: "We always said how important our Bennoth headstart was, and now you're seeing that. Of course people came start us saying where going to do connecting better." In this ship finally get to market, we come thing that is not in front of them that saidenly they're two years behind again."

Everyone else is still just packing yearware,

and we know how reliable that is.

LAUNCH: Creative Labs, late October, Goldstar, early November: Sarryo and probably Toshiba and Samsung in '9S. M2 accelerator due in autumn '9S

PRICE: Currently the price is \$399 but with multiple brands on the way and economies of scale kicking in, expect future cuts



Road Rash from EA — the first gam to show what 3DO could really do

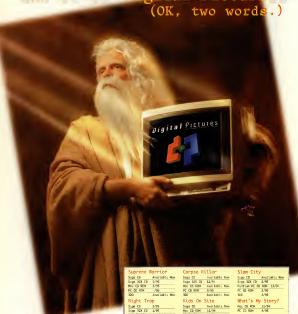


FIFA International Soccer, a turbocharged varsion of the cartridge hit



3DO'n secret weapon? John Madden Football is the definitive football gam

The word has come down on the future of video games, and it is 'Digital Pictures'



"Upon what can such an outrageous claim be based?" you gasp!

Hnadulterated chest beating here.

*Producers of the biggest selling entertoinment CD ROM of oll time - Sewer Shork (oh, the pungent smell of success!).

*First to produce continuously interoctive, 100% full-motion

•All our gomes put ployers in the gome - first person P.O.V. ond...

...Contoin 100% original footage shot by fancy Hollywood directors, to the occomponiment of totally original music!

•Inventors of InstoSwitch", the instant response video technology! And...

...DiaiChrome* - for the most dozzlina video the industry hos ever seen! *First and only game company to sign agreements with

both SAG and DGA! *Producers of five new games this Christmos.

with o never ending streom of hit titles to follow in '95 ond beyond!

*Etc., etc. - it just goes on ond on ond...

.... Kids On Site

Through the wonders of technology, kids get to operate mechanical monsters! Proven to keep little rug rots busy for doys.

What's My Story?

Children get to tell negt stories in full-motion video and insist that you watch them over ond over and over and...

Night Trap

So controversial the industry had to create a ratings board. A blood-curdling, interoctive, horror movie and you're the stor

01994 Digital Pictures, Inc. DigiOhrone is a registered trad of Digital Pictures. InstaGnitch, Slam City, Carpie Killer, Supreme Warrior, Night Trap, Kids On Site and Whol's My Story? are trademarks of Digital Pictures, Inc. 1325 South Grant St., See, 1809, Son Mateo, CA 94482.



Slam City with Scottie Pinnen

This ain't no condy-colored cortoon, but live, in-yourfoce streetboll. Eorn enough respect ond you'll an one-on-one with the Dream Teamer himself.

.Corpse Killer

How do you kill what's olreody dead? Figure it out or your worst nightmore will come horribly true.

Supreme Warrior

The Grondmoster of oll fighting gomes. Punch, block and kick your woy to the ultimote interactive Kuna Fu bottle.

o remember: Video games ain't goin' nowhere unless

we say so! Thank you for your attention.

Digital Pictures



When Movie-Makers Make Games. Everything Else Is Just Cartoons.



THE VIOLETCE TAPES

the future for violence in interactive entertainment. Forget the senators, forget the press releases. Let's cut to the chase. Here in one virtual room are four of the developers who will shape the future of this controversial genre...

Tom Zito (TZ), Night Trap President, Digital Pictures

Gilbert Austin (GA), Harvester Writer, Designer & President, Maetstrom

> Jay Wilbur (JW), Doom Business Manager, Id Software

Leif Marwede (LM), Blood Storm Project Manager, Incredible Technologies

IGHT TRAP

Publisher Digital Pictures
Formati Sept EO. 300
Release: Fall 1992
The first release of a Silicon
Valley 1991, startup, Digital
Pictures must have been
smaxed at the controversy
ganerated by what is, affer all,
a very simple game, Released
or Segs EO in late 1992.
Might Trap soid out across the
country a year slater (to the
tune of 50,000 units) when
Senator Joseph Leberman

Senator Joseph Lieberman pincounted it as "contributing to the unacceptable level of violence in our society." Sega also sold out, swiftly removing copies from the stores until an advisory rating was slapped on the box. NO; Eich of you have achieved Considerable attention with games that have - in different ways - pushed the gameslope of robless; constant in videogenes, Now much of this strenging is one purely to the game's victorice and

THE MIGHT True was probably more successful than it should have been given how long age we made it (1997) and how hastic the level of gammplaying really in: It became a kind of lightning rod. It had been or sale for more than a strain and the same than the same and the same attack, and the same attack and

it was simest impossible to turn the TV on at night a mot see a 10-second ollp from Night Trap. UN: Doom was successful because all of the pieces of the purzle were in place, and the violence is an important part of this puzzle.

important part of this puzzle.

MA: The violence and blood in Blood Storm is a great
attention grahher: the color red is a hig flag, like
stoplights and stop signs. And, of course, you do want
something visually big to happen when something

strategic changes on screen.
GA: Pure it will be an element in the success of



SENATOR JOSEPH LIEBERMAN,

"We're here today to talk about the nightnesse before Chinatmas. Not the movie, but — unfortunately — the wolent videogames..." declared Senator Joseph Lisberman, starting the Congressional Intervention ball rolling on December 1st, 1993 at a

Senator Joseph Lisberman, starting the Congressional Intervention ball rolling on December 1st, 1993 at a senate press conference. "Outraged" by Night Trap and Mortal Kombar, he stated that "I really wish that we could ben them

constitutionally," but sottled instead for a system of ratings. Rumor has at the victionous Senator was last seen cleaning up the freeway noise reducing berner lindustry. Nice job. Joe.

senses"



DOOM
Publisher Id Software
Format PG, 33X, Jaguer
Format PG, 33X, Jaguer
Fellosac Cut from the publisher of the publisher of

unregistered hard drives of gameplayers everywhere. Marwester — publicity is key to the success of any product. If it's not a good game them no amount of hype will help it. But due to the nature of the game — although it wasn't conceived for this purpose — it's a heavy coincidence for the marketing department that there's been all this debate in the media about

Now that led you to create this type of game? Wit the origin of Hight Tray was that I had been nepotiating with Healine Classe to do an interactive version of Nightman or Inf Street. We know we wanted to do some more of technop-liable-borror movie blind of over after with an interactive Very system that we sweet developing. But at the lest minute, the deal full spart, so High Tray was Born.

OW: Id makes the games we want to play. It's exciting to be in the Boom antiforment. Our I had free reign to do what I wanted, so I chose sconcibing original. I sabed symelf what basn't been done very well before and the answer is horror. NO: So how is the controlled use of surprise, borror, and supposes useful in crasting an immostly and

THE IN THE MOST BRIEF CONSESS. If I'm is about and I can be appropriate in the library and provides that I have a comp anythers in that house any out in the III the bound in the present provides and in their presents on our because they can book in their presents on our because they can book in their presents of consession of the provides a notive for gamephayer to do a winthing that the moderate provides a notive for gamephayer to do a winthing and on circuity people to case whost characterist controlled and their provides and their provi

strategy, You can cut off arms and heads and them keep on fighting, so sometimes you do want to deliberately aim for, say, someone's ewapon arms or their legs. Your opponent then has to champe his or her approach as their game abilities change. A game designer wants to hit the player in every

way he can and barrage their measer when they do smoothing good. And is fighting same; it would seen smoothing good. And is fighting same; it would seen the common section of course, remyints and shock is deportant. In flow, the course, remyints and shock is deportant, in flow, the course, remyints and shock is deportant. In the course, remyints and shock is deportant, in the course of the c

The shad softward control of the con



accades. These is a

legitimate(ish) justification for the unstoppable violence however, and that is that

lopping off people's limbs is all part of the strategy — you got it, players can continue fighting without weapons, arms and even less. Nice.



and of fear - by presenting them certain images th corrify, presenting ironic situations which are monsfortable or disturbing.

NG: Did you set out to scare the player?

Mi Never. We set out to excite the player, Gh. No., I don't think you can scars scassos on a PC. I want to horrity the player into a state of uncase, as opposed to simply making him jump in a movie theater. No. So dilbert, can a player level this feeling of unpass as a comerc of skillful play? Gh. No. horsies this attemptor of horror is a

As: No, because this assessment of norror is a minulative effect of everything in the game. SG: Could you have achieved such a compelling game appropriate the violent image?

Wit I don't know the asswer to that, found dilver forms was admitted from filter has a violent form he has a contract from the second of the contract of the contract of the contract of flower has been existed by an exercise perfect of flower has not seen that the contract of the filter is a second of the contract of the filter is the contract of the filter of the filter is the contract of the filter of the filter of the contract of the filter of the filter of the contract of the filter of the filter of the contract of the filter of the contract of the filter of the contract of the filter of the filter of the filter of the filter of the contract of the filter of the filt

M. On yesh. From the start, that was part of the plant fyours just selling a some took searcinn market, than you need loss of blood. Fine, but if you want to the control of the control o

without these classitis; the whole concept regulaces before and Wiolesie and the game would opt exist without it. Fichicael herory fascinates because, - like all elisterialment — there's a level of voyearise. It enables you to live a restrible situation without bayir

to deal with the consequences afterward; it enables you to take a walk on the wild side.

NO: In the development phase, did you wounder anything to be 'too far?'

TER, AD part of the Hightness on Fin Street Earles, we enclosedingly throw use a level of blood and violence exceptions of the street of the street of the fif we completely eliminated it, the player who goes through all the buildop would feet totally cheated, around with me legs designing your instantines behind you, do not, there's nothing but not didn't put in but there's an erful loc of bloot comedy in them, it's managed charge-ray and currous violence. Life as managed charge-ray and currous violence.

definitely not real.

GA: No, there wasn't anything I shied away from
Daughal Naryekter runs the gamet of discouting

behavior and there are no decreal code I considered mathematical region of the considered mathematical region to children getting subducted and functioned. But I wanted to do a real horsey gase, not just another huntred boson. And to disturp a player in these jaded times, I black you really lave to date into game adors attacks. This you really lave to date into game and the attacks. The horsey games. If to become hig dismupites like discresion, As also run by comporate boards and gays is said. "America is the only country that likes all this gore and blood in games"



MARVESTER
Publisher Merit
Format: PC CD ROM
Bactesser May 1299
Owd Lynch meets John
Owd Lynch meets John
enterse psychological theiler
that uses scenes of graphic
violence and mindewstein,
absorations undertowns to
balance. More than just a
nack-and-alsain, Harvester's
open ended skyle forces
sisyen to come to terms with
feelings to come to terms with

Allegedly.

Definitely not for the



THAT BLOOD-SYRINGE CONTROVERSY... It was this image that became the focus of the

became the focus of the Alght Trap uproar: a woman on the business end of a syringe/drill strangement. Horrife? Over the line? Sexist? You be the judge. Alght Trap's creator, Tran Zie.

"We didn't want to show vampires actually plunging their fands into people's necks and see blood going everywhere - we thought that would be going over the top even though it's the stuff you see in any two-bit vampire movie. So we came up with this ridiculous device, this thing with the drill because we didn't want to use guns vinlance that number one is two is totally non-replicable. It's not a device that kids are going to find while rummaging through the garage and then bring inside the home to use heir little syster. I meen it's just not going to happen.

THOSE IDSA CLASSIFICATIONS IN FU These little beauties are

what you'll find on all certradge game boxes from now on. The ratings are decided by an independent panel of advisors. Here's what the ratings are and what they mean:

Carly Childhood

"Will not contain any objectionable words

objectionable words or depictions what soever."

Kide To Adult (Ages 6+)
"Games in this category could contain mild

such as one might find in a Road Runner' cartoon. Games might also include comic mischief, such as one might see in cartoons or stepstick comedies like 'The Three Stooges'," Good gref.

Teen (Ages 13+)

"Could contain depictions of violence or

violence or suggestive sexual theres."

themes."

leture (Ages 17+)

"Could contain more intense depictions

of violence and

"May contain graphic depictions of violence, strong sexual content, and the extreme depiction of profenity, sloobel and tobacco use, or drug souse,"

Of course, none of this is legally binding: the whole system is reliant on the discretion of the individual store keeper. and to try and yet constiting truly fringe past these people is virtually impossible; they're forever thinking "what are people going to think?", and "what if we get bad publicity?" so they tone it down and the baby ands up being thrown out with the bathway the

On We have stiff here that we consider too farm medical photographs of dismembered bodies, for example. But let us bell yop, were we able to take these photographs, work them into the game and make them an equally important part of the game them it would have contributed and we would have used them. 30% 80 30%, in the future, 30 youldn't draw the like at

contributed and we would have used them it would have contributed and we would have used them.

HOS 60 Jay, in the fiture, Id wouldn't draw the line at using any insape on a moral wandpoint, but look at it purely in terms of what it can add to gammeplay?

HOS: HILL the new ratings effect how you produce gamme?

HOS: Will the passes we want to play, and then let the

JH: We make the games we want to play, and then let the ratings fall where they will.

Gh: If I wanted to dabble with horzor again; I wouldn't compromise the design for the make of a rating, no.

LM: No, no way. No: Just to set the record straight: Do you believe that exposure to violence (in the form of mortes, comic books or videogames) leads to a higher proposity for

TEX 'I'm not a psychologist, but I believe that if you're brought up in a stable environment with a lot of lowe, then it doesn't make a whole lot of difference what you get emposed to. If not, I think lots of things potentially could take the place of whatever if is you are looking to your parents for and become a kind of influencing factor in your life. But it's preposerous to claim that because a kind pays a violent Videogume,

he's going to turn into a violent person. We Playing videopense is a preat release of violence, and this is a belief that is echoed back to se by countless experts in the field. I would sak the people who claim that violence is caused by videopense to complain the Cruesdee, one of the most violent periods in history, and yet these people did not have videopense. So what made them do it? Whair

MM There are a lot worse things that kids are exposed to, like "topy and the TV sees. I think kids are barraged by a lot more real violance than any pretend violance they might see in an arcade. Besides, I think videogeness are good for a lot of kids. I'd good for the sees of the s

GM: It's complete hallehit. It jest want to mak these proje to look at all the violence you see in Mait, am yet how many of them have Misiembe decked Now wanty watch the "A-feast" ho NVV And jet they are happy to show all this real life violence on the "Vinew because they justify it by asying that it's real, therefore it's significant. But I think Johesa are significant

May like about the idea that what you are shocked by it call life is a function of what you have been exposed to iffer example, a nurse who werks all day is, as so that the contract of the contract of the contract single, or blood is a cut wreat them as confiancy primons No. a player who has seen measures's head ripped off it lines in Norral knowle is not oping to be as shocked it on the folict line as he was the first line. Maybe his idensification if no most you transform to real! TWO RIVAL RATINGS SYSTEMS... Currently there are two separate publisher associations rating games

under two separate systems The IDSA (Interactive Digital Software Association), which includes: EA. Sega. Nintendo. Sory, Atan and Philing representing the cartrida manufacturers, and the SPA Software Publishers Association), including over 1,100 developers, publishers and distributors of business. educational and consumer software that regulates the computer-priented products Ken Wausch, Executive Director of the SPA, explains the reason for a breakaway alternative system: "The IDSA) ... would give the established and powerful indeogame companies the ability to control access and

retail channels. [Members of Congress] ... never understood that or chose to ignore our [the smaller, computer game oriented publishers] argument that, we could not be grouped with the videogame industry.

...AND THE SOFTWARE

SYSTEM

The maio difference between the SPA rating system and the LIDBA scheme is that the SPA's independent board of judges moderate me satisfaction of the products are satisfaction when eggs of game player, instead, see how displays details of the game's content—and then let the purchaser make a more informed buying decision for him or hereoff.

GS: THE CASE FOR Seemingly everyone agrees that ratings are 'A Good Thing,' There are, however,

ratings are not only bad for the videogame business, but morally unjust.

Their arguments go something like this...

Classifying games in the way the IDSA has (into different recommended age groups) is as good as an admission to parents that some games are dangerous, addictive and not fit for children to play. Yet there is no proof of this and this suggestion has never been conceded by any member of the videogam community. At least the SPA system explains what is in each title letting the consumers themselves decide

who the same is suitable for. At the same time, the IDSA system of classification is deeply unattractive to children, who feel as though the danger, the edge, the excitement has been taken off the dames they play games won't be tweaked for rating page) approval are

semply houng narrel The ratings simultaneously add to the wornes of parents ("There must be some truth in it. while sanitizing the games for it's fit for a 12-year-old, well

I'm 14 and don't want anything to do with it").

Classification is morally wrong Yes morally wrong restricted as far as possible. mposed only as a last resort and in circumstances where there is overwhelming support for it. To impose it where these fectors do not apply is morally wrong and an infringement of First Amendment nights.

continued... >

I've seen decapitated people and I guarantee you that even if I'd played Mortal Kombat all my life it still would have shocked me. JW: Get real. C'mon. What kind of idiot would think

LM: Kids understand what a videogame is, and parents often don't give kids enough credit for this.

GA: Growing up, I watched all the Warner Brothers

certowery intended movie to gross as out but that has nothing to 80 with how I react in weal life. No: Advaptitisging the fact that there may be a low between what jou was and what you do, do you think the risk for videogume players is higher because gamer as controlling what happing, inside of face watch mo it.

LM: There's no difference. JW: The only difference is that you'll probably be less stressed coming off a really good game.

T2: I think the interactivity heightene the positive effect, because you now understand that there is a casual relationship between doing something and

JW [in response]: Absolutely. That's an excellent point

72: Yes, absolutely/ I hate censorship, and I would strongly defend people's right to produce whatever they wanted, but we do need comething to help parents decide

what their kids should or shouldn't have.

JW: Absolutely, I'm a consumer, and so anything that
gives me more information on which to have a purchase

LM: No, in as much as I don't think the people involved in the Congressional intervention really understand. To listen to those guys talk, you'd think that they don't even have a handle on what, say, the different home systems are.

TZ: Fundamentally, in order to have a good videogame Yas, Fundamentarry, in order to have a good resequence you have to have transmissions replay value. The novelty of violence will lear off, Besides, these things take a lot of money to make and so you've got to be sure it's going to appeal to a wide enough audience. I don't young to appear to a week and an anterest think enough people would find extremes palatable.

JH; There is a hugs market for excellent games. All we have seen here is a series of great games that happen to include violence, Of course; there will always be

"to disturb a plaver in these iaded times vou really have to delve into some dark material"

...continued Argument 3 If Senator Lieberman's et al.

onginal idea was to reduce may have been activered. Now that an adult classification exists the genre has been legitimized.

Nincendo, for example originally argued against the rations system because it legitimately - pointed out that its own code of production prohibited most notence/gore anyway Ratings simply weren't

Now however the existence of a ratings category for violent games carrying the moral burden and enables the release of

Of course, these arguments are largely academic: the ratings are here, so let's start living with them. And, of course, with the threat of governmental legislation. the games industry had no AMATEUR PSYCHOLOGYI
Certamly there's been more
than enough of this afready.
But, hey, here's some more,
in the absence of any
concrete proof, these are
some of the observations
raised by those who would
establith a first between
playing videogames and a
higher propensity to raise that
otherseave in anger...

game"

it's only play, nght? OK, but all infants learn about real life by "playing," So it makes sense that one must have an affect on the other.

is simply irrational.
The idea here is this what a person is "shocked" by is simply a function of what he or she has been exposed to. Therefore, for example, a nurse who works in an Emergency Room every day is less likely to be shocked by.

the sight of blood in an out-ofwork situation than you or I.

But those are two real life

situations. Videoga seperate deal altog they're not real.

When a player sees a fatalty in Mortal Kombat, it some point the brain processes the information that "someone's head just got out off." Even if a millisecond later this is qualified by "but it was just pretend," maybe the demigle the player is now just a tiny bit desensitized.

So are you saying people don't know the difference between what's real and what's pretend?
Of course not, but how do yo explain that every TV soap opera gots hundreds of lette

Of course not, but how do you explain that every TV soap opera gets hundreds of letters each week from people who genuinely believe that the characters are real? people who emploit violence for violence's sake and these games will probably be.
Morio has still sold more games than anyone can hardular count and there's mo violence in those games at all. Unless you hate mushrooms, of course.
Mr. No, because the appeal isn't international. And

150 No. because the appeal fact international, And the Month of the American Companies of the Month of the Mo

Til Sirve, the argument can be made that Jame Bonds and pormography were the major notivations behind VISs and — that may or may not be true — but you can't say that Jame Fonds and pormography fueled the movie industry, it was vary strong before VISS were even thought of. I think the games business is the same ways Violent and pormographic products are already heing deweloped and

that this will continue.

GA: I see that, and that's a very good parallel and

and way will be true. But let's be careful to make he difficient between herers and violence. Morror law season of northlate things, togles that are shamed by colles sodely and freally don't think that maintrains of the season of the season

government stifles it in some way.

Nor Ne're all sware of some physical effects as a
result of playing videogames, the quickened pulse,
heightened adramatine levels, stc. Do you know of as
medical research into this phenomens?

TZ: It's just excitement.

JW: No. I've not beard of anything.

GAr They have shown that kids tend to be more "aggressive" immediately after playing violent videogames, but hey - they're kids. And all the

game has done'ts kope them up with energy which doesn mecessarily trunslate to ill will. There's been no proof that there's lasting effects, and kids are maturally rough-housing, violent little aminals anyway NOY DO you think research into this is secessary?

GA: Research on edults would be interesting, but it wary difficult to effectively test adults because unlikh kids — they have a good ides of what the tes are all about and maturally tend to hide their

enotions.

NG: Is it reasonable to assume that as games become more realistic in the future the 'supposed' physical phys



VIOLENCE DOESN'T ALWAYS SEI Okiahoma-based RecerSort achieve a modicum of infamy in 1991 with titles such as TechnoCop and Stormford, Very basic Genesis

Lingon, Satt

about the nature of the graphics gory violence and naked nymphs (although the

nymphs had been equipped with bras by the time the game hit the street) — that spectacularly failed to ignite the public's litterest. For some reason i small, blue spinning character was small, blue spinning character was

> VIOLENT VIDEOGAN SCREW YOU UP: THE "PROOF"

in the mittal Senate hearings, several studies were cited that "indicated" a link between exposure to violence and increased aggressive

behavior. Senator Lieberman: "The Surgeon General, the American Medical

Association, the National Institution for Mental Health, and many other organizations have concluded that there is a link between television violence and aggressive behavior. And common sense suggests that the effect of violence or sexual images may be even presider with

videogames

between playing violent games and becoming a more violent person. Even these reports mentioned generally only go as far as observing "excited and aggressive" behavior after watching a violent movie: simply the byproduct of any adrenaine rush, the cynics will observe...

There is however no



TAL KOMBAT LA II

Release: Out now
of course, no violence discussion
would be complete without mention
of Morral Mombat — deserte the
fact that Williams offers a blank "no
comment" to any enquiries on the subject and the best Acciaim can

So what's the real deal here? Well, Mortal Kombat II is a great game, features solid gameplay, creative characters, more moves than you can shake a stick at, and

of course — buckets of blood. however, achieved spectacular success (1993's biggest selling fact that - at the time - there wasn't much competition, the game characters were digitized actors, and there were two new features: fatalities and blood by the gallon. Every game needs a hook, and this

TZ: All I know is that anything I can do to take TV out of the mode of heing passive and into the mode of being active is worth doing. I am much more concerned about active Is worth doing, I am such more concerns moore the passivity that gets induced by television than the risks of interacting with videograms.

July IX's hard to say, Right now, when I play Door I get an adrenalin rush, I get pumped, I get excited and it's an adrenalin rush, I get pumped, I get excited and it's

difficult to see how I could get more into a game than this. At this point, I think I'm at the height. LM: I agree, that's unrealistic.

TZ: Sure, there'll he a sword fight, you'll get your head chopped off, look down and see it looking up at you with a smile on its face. It's going to he so ridiculous you're going to laugh! It would be just like Monty Python's The Holy Grail.

JW: Nothing is "too far," just whatever it takes to make a perfect game.

scmething really horrible might have to go underground

72: Oh, we'll do another horror show, for sure. JW: In the future we'll keep the same taste to Boos, for surs. But our main goal to is to increase the scope of multi-player options.

IM: Yes, sure. As long as they're fun, fighting games are still hot, we still enjoy making them, and the kids still love playing them.

MG: Com, Jay, Leife, Gilbert - thank you

"if the brain believes it's dead then who knows what could happen?"

He Who Laughs, Lasts.

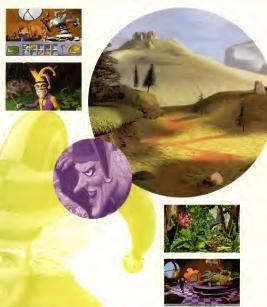
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alphas

Exclusive previews of games that will shape the future



his month gamers the world over will look to Japan to see the next generation of videogame consoles unveiled, so for this month's finals section our concentration is on the games that will make or break

these new machines.

Over the coming months, alphas will profile games in development for all gaming formats including PC and CD-ROM. But for this month, the coverage is focused mainly on software for Sony's.

is focused mainly on software for Sony's PlayStation and Sega's Saturn.

Both machines launched within a week of each other in late November, and right now the following games are those that shareas what each is creative.

64 Motor Toon GP PLAYSEASSON

Sony takes a Nintendo-Inspired drive into the world of colorful, wacky rading

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Saturn's recreation of the ultimate arcade fighter nears completion

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An exclusive look behind the scenes at Namco's Ridge Racer development HQ

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An adventurous and Of you will) 'ballsy'
game from the makers of Marble Madness

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The ultimate arcade driving game is

squeezed onto Saturn. Here's how it looks

81 Clockwork Knight saturn

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A Virtua Fighter-clone for PlayStation, Takara invites direct comparison to Saturn

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Can the Jaguar really handle its own 3D fighting game? Atari thinks so...

86 Gex and

crackin" (ch dear) character for 300

88 Virtua Fighter 2 Arcenter

Texture-mapped polygons, Sega's AM2 board and 60fos. Get ready to numble







Motor Toon Grand Prix



Sony is kickstarting its new system with an in-house project that looks set to become an instant PlayStation classic



Format: PlayStation Publisher: Sony Computer Entertainment Developer: In-house

ven that Sony intends

the PlayStation to be

a mass-market games

elease date: Dec (Japan) Origin: Japan

machine supported by original software. Motor Toon Grand Prix (formerly Poly Poly Circus GP) is a powerful statement of purpose. On the surface, it has all the hallmarks of a cute, childish console game - the kind

of thing you'd normally expect from Nintendo, in fact. But it's also a technical showcase for the PlayStation that will have laws dropping and mouths watering.

At first glance (in other words from still shots like these), the lack of texture mapping in Motor Toon Grand Prix is glaringly obvious - most of the scenery is made up of plain, Gouraudshaded polygons with the occasional texture evident on trees, buildings and roadside signs. But it's only when the game is actually moving that its real graphical flair becomes apparent.

For a start, the frame rate is extremely brisk - it rarely drops below 60fps, which makes for exceptionally fluid movement throughout the game In comparison, Nintendo's Super FX-assisted Stunt Race FX chuqs along at a humble 12-15fps.

Another focus of attention is the variety of Virtua Racing-style viewpoints selectable during play. The transition between them is perfectly smooth, and each one provides a different perspective of the gameplay as well as delivering dazzling views.

"We've tried to make the driving sensation as realistic as possible, but without detracting from the enjoyment of the game"







Motor Toon Grand Pix stars five different cheracters designed by resowned Jepanese ertist Sesume Mateushita. Taxture mapping provides detail on roadside buildings (ebove) end trees (top left), while shadleg — for the sake of increased speed — is used for the landscapae

And then there's the game world itself. Rather than offering a rigidly defined path, Motor Toon Grand Prix enables the player to take different routes, venture off the track, or even drive recklessly towards oncoming traffic. One track even includes tubes tunneling into the ground — whether you go down them is up to you. The project's director, Kazunori Vannauchi, Calains that Motor Toon will transform the way we currently think about racing sames: "We've it reied to door racing sames: "We ve' reied to as possible, but without detracting from the enjoyment of the game. Basically, we're not tryins to fake the contraction of the contr

and or Toon Grand Prix is now approaching the final stages of development, but there are a great many more features to be added, including extra tracks, even more camera angles, a potentially awasome two-player link-up mode using a pair of televisions and, above all, lots of humor and personality.

From what NEXT Generation has seen, Motor Toon Grand Prix is the PlayStation's own distinctive fusion of Stunt Race FX and Virtua Racing, Don't be surprised if it ends up surpassing both.



the care actuelly twist end bend on they negotiate the obstacles

Head to head Motor Toon Grand Prix is

believed to be the first same to take advantage of the PlayStation's lank-up ability (although some doubts hang over the status of this PlayStation feature - as outlined in a NEXT Generation interview with Namco on page 70). But hopefully, with two PhyStations, two television two copies of the game and a lead (that will probably come bundled with the machine) to connect the consoler via their communication ports. players have access to a twoplayer mode that should add immeasurably to the Motor Toon Grand Prix experience. Sony is also planning to release a multitap adaptor to erable the connection of up to eight PlayStations. Beats a

Tupperware party any day...

Virtua Fighter



he higher resolution of this 5%-complete version show) makes it estably sore impressive than the owers, low polygon demolega exhibited at the Tokyo oy Show (right)



f there's one game that oozes over-the-shoulder appeal, it's hardow so over-the-shoulder appeal, it's hardow so one of the sold of the sol

Saturn's Virtua Fighter naturally looked crude and blocky. But as the characters in the game were composed of only 100 polygons compared to the arcade's 2,000, this was no real surprise. Now, however, things look very different. The polygon count is slowly creeping up and the solid yet slick look of the arcade version is gradually beginning to surface.

But it's not just a simple case of getting a graphic artist to model graphics with an increased number of Sega's polygon fighting game is starting to take shape on the Saturn. NEXT Generation gets technical with developers AM2

Format: Saturn
Publisher: Sega
Developer: In-house, AM2
Release date: Dec (Japan)
Origin: Japan

polygons. Unlike the Model 1 board the Saturn has no custom polygon hardware, so the twin CPUs have to handle all the processing burden. Sega's legendary coin-op guru, Yu Suzuki, who is heading the AM2 effort, is currently working on an acceleration program to bypass this bottleneck. He explains: "In order to get over the problem of the hardware difference Thetween Saturn and the Model 1 board] we're preparing a high-speed program and improving the display capability. When you try to program a character with an increased number of polygons, processing which took 1/30th of a second can end up taking 1/15th of a second. The more processes there are, the slower it gets. We have to write a program which can run in 1/30th of a second even with a greate number of polygons."

The quality of the Saturn graphics in the 45%complete version has been greatly improved by the recent switch to a higher resolution (640x224 from 320x224). This makes a total of 143. 360 pixels, which brings the game closer to the resolution of the coinop - 190,464 pixels

at 496x384.



Wolf grapples the (essally) almble Cage to the floor. Seturn's Virtue Fighter will compete with Ultra 64's Killer Instinct, Psychotica's Toshinder and Jaguar's Fight For Life — It's the one-on-one states that will show which extend has the action.

It's possible for the Saturn version to extra polygons. achieve the same effect with 1,000 polygons that the arcade

version

to create

needs 1.500

Despite the fact that the finished Saturn game will probably feature fewer polygons than the coin-op, it's likely that Virtua Fighter devotees will find it hard to tell the difference between the arcade original and the home version. This is only possible because of the Saturn's texturemapping abilities. Put simply. Sega's Model 1 arcade board was nothing but a polygon generator. All the floors and characters in the game were constructed from polygons (although the backdrops were bitmaps), and minor details like facial expressions and the belts and hats of some of the characters were created by adding

The Saturn version, however, will be using texture mapping to provide such detail: The polygons that were used for the eyes, ears and mouths, for example, will be replaced with textures So, in theory, the Saturn version could be just as convincing as its arcade counterpart even though it uses relatively few polygons

In fact, Suzuki claims that it's possible for the Saturn version to achieve the same effect with 1,000 polygons that the arcade version needs 1,500 to create, One AM2 programmer even went so far as to suggest that "If 1,200 polygons are used for each character, the Saturn version will look more or less on a par with the arcade game." Suzuki's priginal task was to get 1,000 polygons running in the Saturn version. This objective was reached by the time the Tokyo Toy Show



oif is made up of 550 p

took place in June this year (although Sega admits that the demo seen by NEXT Generation at the show was the result of two weeks of rush work). Now, with the Saturn version making use of about 1,300 polygons in each scene (550 per character and 220 for the ground). Suzuki is hinting that it might eventually be possible for the Saturn characters to reach the magic 2,000 polygon mark.

Virtua Fighter hit Japanese shelves to coincide with Saturn's November launch. Count on NEXT Generation to be the first to report the news of the finished game.



Although widely acclaimed for its graphical appeal, there's more to Virtua

Fighter than meets the eye The fluid camera movements and lawdropping animation are created by means of highspeed pencessing. All the processing needed for each frame of Virtua Fighter from the actual calculations to the point at which things happen on-screen - is completed in 1000 of a second - 0.033 seconds or 33 milliseconds, then looped.

The "high-speed program" mentioned by Yu Suzuki (see left) is primarily concerned with minimizing the time that the CPU waits for the next process during the program looping. "We are working at a level where if we save one millisecond we can display 100 more

polygons," says Suzuki. For the Saturn version to accurately replicate the movement of the arcade, the machine must carry out 1 million operations every 1/30th of a second. For the record, one processing step on the Saturn takes 35 panoseconds or 35 thousand-millionths of a second. That's not long...





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goma corrode your brain tick. His battery acid in two hours unless you can tick outwit and outshoot releastless enemy agents tick. On find Doc the only glay who may know how to save you tick then make peace with your personal demons tick and somehow God help you tick locate the party responsible tick in this cold harsh near-fit work tick before you bit the do what a bummer tick your time's un



Namco

Namco's console software development has traditionally slipstreamed its arcade technology. Now the company's support for the Sony PlayStation looks set to reverse the situation

"All aspects of the gameplay have been done and the graphics are now 70% complete"



Shigeru Yokohama, general manager, Ci development on Nemco's PlayStatio version of Ridge

amco is destined to
be a prolific source
of software for
Sony's PlayStation.
A deal signed with
Sony allows the
coin-op specialist to produce
product for the home machine as

using the PlayStation technology. With Sorry's machine now entering the home stretch, NEXT Generation visited Namco's HQ in Yaguchi, Ola-kiu (20 minutes from downtown Tokyo) for a meeting with the R&D lab responsible for Ridge Racer and other PlayStation titles, and spent several hours quizzing five key staff, including the ever-helpful Youchil Haraguchi and

well as develop arcade machines

When NEXT Generation
was last at Namco, the conversion

Noby Kasahara.

was last at Namco, the conversion of Ridge Racer was still deep in the planning stages. Six months later, there are just a few weeks to go before the game is scheduled to be finished.

"We've spent 80% of the necessary development time," reveals Shiger Vokohama, general manager of the CG development department. "The project manager keeps telling us it's not enough," he adds, laughing.

Mamor's Tokyo hoadquarters in Yagnesi, Osioko (el robot (lop left) that points violeters in the right dire

Six months to convert a sophisticated arcade game to a brand-new system using embryonic development hardware is a formidable task. Namco has a core team of seven programmers and graphic artists working on Ridge Racer but is also relying on a number of planning staff to

complete the project.

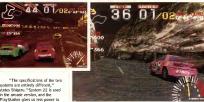
"M's difficult to estimate just how complete the game is in percentage terms," shrugs Shigeru. "All aspects of the gameplay have been done and the graphics are now 70% complete. There are still small details to go in, like the girls at the beginning of the race – they've still to be designed – but most things are finished."



adside detail is practically identical to the arco raion. Of course, Nemco gets ell the best ad site

Although characteristically wary of giving away too much technical information about the conversion process—and the PlayStation's ability to replicate the coin-op—the *Ridge Racer* team was prepared to reveal some general details about the problems they encountered.





systems are entirely different,"
states Shigeru. "System 22 is used
in the arrade version, and the
PlayStating piles us less power to
play with. The number of polygons
onscreen caused us some problems,
as did the PlayStation's CPU.
There's also no anti-aliasing in the
home version. We spent a lot of
time refining the program on the
ended up a lot bigger than the
program code in the coin-go."

Judging from the pictures on these pages, the programmers (who, unlike Sega's Daytona team are not part of the arcade division) are experiencing some difficulties achieving the arcade version's level of detail. But the preliminary results are extremely impressive considering that they represent just six months' work. And what really matters is that the game looks fantastic in motion, Just as NEXT Generation was going to press, it came into possession of a videotape showing the game moving, and can testify that these screenshots fall to

Note the Reve Wer legend on the e clever bit of merketing for Name upcoming fighting game Tekken

do justice to the quality of the highspeed action. PlayStatlon R/dge Racer will include extra features not found in

PlayStation Ridge Racer will include extra features not found in the coin-op. One improvement will be the addition of two different viewpoints, giving the player a total choice of three - this will no doubt be welcomed by Virtua Racing complete. Extra views (obsve and above left) should further boost its opposi

> devotees. A selection of 12 cars will also be incorporated.

All the standard arcade options will be retained, including automatic transmission, the time trial route and the ability to travel the opposite way around the circuit. The soundtracks in the game have been ported straight over onto the PlayStation sound hardware and Namco is currently designing a steering accessory for the console to mimic the arcade experience as faithfully as possible. Rumor has it that this translates to a lovpad held in both hands with a twisting central hinge - steering is achieved by twisting your grip as if you were wringing out a towel.

The coin-on

Ridge Racer uses Namco's System 22 rendering system. This hardware relies on the 32bit Motorola CPU running at 25MHz and boasts digital signal processing (like Virtua Racing and Daytona), Ridge Racer's graphics run in an interlaced 640x480 mode using over 30,000 colors onscreen. According to

Namco, System 22 is

more powerful than Sega's Model 2 2 board, with its "TR3' chip capable of rendering 240,000 texture-mapped and there's the difference) Gourardshaded polygons every second. That translates into an astonishing 400 million FLOPS (Floating point operations per second). 'With Sony, we can take the same percentage profit on each unit but sell the game at a much lower

price'



The soundtrack to Ridge Racer promise to give PlayStation's sound herdware o decent workout. Namco may offer a selection of tuess to choose from

One issue which has been discussed at length at Namco is the PlayStation's link-up capacity. It has now been confirmed that a linkup facility won't make it into Ridge Racer. According to Mr. Yokohama, "Sony is a little bit behind on this particular aspect of development. We haven't seen the machine's linkup capabilities working yet, and we've no information about it. For this version of Ridge Racer, it won't be possible to play linked up." This is a shame, but it's one deficiency that Namco will surely address with a new release of the game (and is likely to remedy in a conversion of Ridge Racer 2). Namco is still committed to

releasing Ridge Racer to coincide with the arrival of the PlayStation. "The exact launch date is still not confirmed," section chief Noby Kasahara points out, "so it's hard to say when the game will be released," Presumably, there won't be too much sleep lost by the texty in the unlikely.



¥6,000 (\$50) is very encouraging, given that a current wave of Super Famicom (SNES) software is hovering just under the ¥10,000 (\$90) mark. Consumer sales manager Youchi Haraguchi explains

Consumer sales manager Youchi Haraguchi explains that this is a direct result of Sony's lower licensing and manufacturing fees: "

manufacturing fees: "With Nintende, the higher-memory ROM boards cost between \$2,500 (\$23) and \$3,000 (\$28). With Sony, the cost of a single game CD is closer to \$1,000 (\$9), so we can take the same mark up on each unit but sell the game at a much lower price."

No other versions of Ridge Ramon, although it's known that the company has a contract with Sega for Saturn development (SDO software was on the cards but now looks disbluss). We know the PlayStation well now and it's good hardware, "explains Shigen." Well we don't know the exact specifications of the Saturn yet, so it's difficult to say whether the game could be translated or not.

Other new machines like the 300 and 32X simply aren't powerful enough to do justice to the game." To the inevitable chagrin of the millions of loyal Japanese Super Famicom owners, the chances of a 16bit version appearing are at about zero.

Another major project currently being worked on at Namco is Tekken (the game will probably be renamed Rave War for its US release). Running on the new System 11 board co-developed by



This is the only illustrative material so far available for Tekker: Nemco's top secret fighting game. More detail



The two-player link-up won't make it to the final version of Ridge Racer: Sony hasn't managed to sort the final system dotalls. Ridge Racer 2, however, may come up with the multiplayer good

Namco and SCE.System, this beat 'em up is one of the most significant developments at Namco – System 11 is essentially a PlayStation chipset optimized for the arcade.

"It's not exactly the same hardware as the home system," admits Shigeru, "but It's based on the same system, rather like the Titan board is based on the Saturn. Because the game has been written on the PlayStation, no conversion will be necessary — it can be ported straight over."

It's thought that one of the original AM2 designers of Virtua Fighter is playing a major role in Tekken, following Namco's recent acquisition of designers from Sega. With texture-mapped polygon

fighters à la VF2 and exceptionally filluld movement, Tekhen wowed the filluld movement and the recent JAMMA show. Although Namco officials did its best to deter photographers, Tekken/Rave War is expected to appear sometime next year. Cyber Sed, another

PlayStation conversion in the works at Namoo, is just "one month behind Ridge Racer"; It and Starblade are scheduled for release in December and January respectively. "We'd like to be able to release one game a month for the

system," states Youchi.
As for Ridge Racer, hopes at
Namoo remain high. "We're hoping
to sell one copy of Ridge Racer for
every PlayStation sold," Mr.
Haraguchi discloses. "Well,
if it's at all possible."

There's to Trajum Toyota for enoughing this inter-con-



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Tama

Format: Saturn Publisher, Tengen

Developer: In-house
Release date: Dec (Japan)
Origin: Japan

ama is the Japanese word for ball, and in a sense developers Tengen have come full circle with their forthcomins Sena

Saturn game, set to be one of the first third party releases for the machine. Tengen was established to publish home computer conversations of Atari Games' coin-post, and it was Atari who hashed with the state of the machine, Marche Madeness. Released in machine, Marche Madeness. Released in 1986, Marche Madeness took one its foundation a realistic simulation of ball dynamics and added some colorful bometric graphics and a trackball to corridings. A trible of convert titles

followed on the home

Tama is the game that completes the Saturn launch line-up. **NEXT Generation** witnesses what could be a resurrection of a classic genre

notably Gyroscope, Spindizzy and Bobby Bearing — but by the late 1960s the genre was all but dead. Only Ascilware's Spindizzy Worlds and Tallo's Cameltry, both for the Super Famicom, showed that the 'yoll 'em up' still had some life in it.

The gameplay in Tama reverses the concept of Marble Madness. Instead of controlling the ball, you control the course, which you can tilt, twist and rotate in order to make the ball move in the required direction. The object is to steer the ball into a goal before a time limit runs out.

Each course, or 'field,' in Tama features a maze consisting of walls, ramps, steps plus one or more unusual obstacles and traps. There are no enemies, so the game



Zooming out fully reveals the nice mirrored backgrounds upon which ell the fields of



For fine control, you can zoom right into the field. The goal is the checkered flag or

On this field, the goal is much higher than on the field you start the game on. You have to guid your ball across the block-strewn lendscape, make it up the ramp (very tricky) and to the right



Getting up the ramp of the center of this level will take some doing (above). Being able to zoom in for a closer view is a crucial part of the game (above right)

is a simple race against time, but, amazingly, the pared down gameplay is accompanied by a story line: Bad balls, created by an evil machine, have taken control of Balls World, and the good balls have to try and win it back. This is resoundingly bizarre by any standards - even those of the Japanese, whose taste in interactive entertainment storylines is often strange to our Western tastes — but it does allow an excuse for setting the fields in different locations, including forests, mountains, plains, glaciers, athletic tracks and even a cemetery. As might be expected, each type of field

has its own peculiar type of terrain which affects the balls' movement in different ways and gives the action some variety.

DeSpite 15: impressive texture mapped generally. Tama is a intillely to feature highly in Signis software put for the Saturn come the US issuanch. As long as it delivers everything it promises, the Japanese penchant for puzzle-oriented arcade games should secure it a niche in the Japanese market, but with Chockwork Knight, Virtus Fighter and Duydrou USA on the way, it's unlikely that Tama will be camere's most-warded lists.

This is resoundingly bizarre by any standards — even those of the Japanese, whose taste in interactive entertainment storylines is often strange to our Western

tastes



On the spooky cemetery levels, the wells and obstacle ere made out of gravestones and sinister obelishs



The giacier levels are, unsurprisingly enough, constructed out of blocks of ice

THE DARK SIDE OF THE FORCE JUST GOT DARKER.



DARK FORCES



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7

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"Graphically outstanding fast action beat 'em up be

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Daytona USA

Format: Saturn Publisher: Sega Release date: TRA

By lowering the level of detail, Sega hopes to achieve an acceptable frame rate of around 20-30fps

Developer: In-house, AM2 Origin: Japan

or six months Daytona USA has dominated the arcades with its blend of multiplayer action and stunning graphics. This success made it inevitable that it would be introduced to a wider audience, but the disparity between coin-op and console power has led to doubts about the attempt to port it to the Saturn.

The coin-op version of Daytona USA is based on Sega's proprietary Model 2 arcade board, Model 2's 25MHz 32bit CPU is used to drive a custom graphics engine capable of 300,000 texture-mapped polygons per second, with the additional nower needed to move the game along at



60fas provided by multiple 32bit 3D co-processors which take up 178 megabits of ROM on the board and operate at 16MEL OPS Although there's no hope of Saturn attaining this level of performance.



The console version of Sega's masterful coin-on is on track to deliver an exhilarating racing experience



mapped bonset and (of course) the clou

Sega has already made considerable progress toward a faithful conversion. By lowering the level of detail, AM2 will be booing to achieve an acceptable frame rate of around 20-30fps. The mountains, trees and track bear the brunt of this economy drive, with a marked reduction in number of colors and texture-mapping finesse.

Perhaps the biggest draw for potential buyers is the promise of a link-up mode. Sega's recently announced seven-player multitap adaptor and steering column will allow several fully race-kitted players to take each other on.







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Clockwork



With Saturn imminent, Sega is adding the final touches to its polygon platform game



Format: Saturn

Developer: Sega

Publisher: Sega Release date: Last Nov (Japan) Origin: Japan

any people were annalled at the prospect that a certain blue hedgehag would be the first platform star to make an appearance on Sega's Saturn, Sonichaters will be relieved that the honor has been bestowed instead upon an armor-clad clockwork doll by the name of Pepperouchau. The game in which he stars, the appropriately titled Clockwork Knight, is now in an advanced state of development and was scheduled to appear on the

Clockwork Knight is set inside a large American country house, which appears particularly huge to your character because he's only a few inches tall. The story revolves around a small doll called Chelsea who is trapped inside the house's cuckoo clock. Every night, when the clock strikes midnight she sings a tearful song, and her haunting voice brings all the toys in the house to life. But one night, during an electrical blackout, she disappears. So, in true platform-hero spirit, the valiant Pepperouchau goes in search of her.

Saturn at Jaunch



Featuring a mixture of bitmapped backgrounds and textured geometry, Clackwork Knight looks absolutely dazzling. Sega has used the Saturn hardware to its full canacity to create some fantastic parallax effects as well as generate some smooth polygon animation.

Judging by what Sega has revealed of the game (the real thing, rather than the SGI demo), a great deal of interaction is possible with the backgrounds in Clockwork Knight. Household objects can be knocked off shelves, clockwork trains can be commandeered and tea towels can be used to slide across slippery surfaces.

If it plays as well as it looks. Sega's clockwork hero could be the next Sonic. No wind-up.

mixture of bitmapped backgrounds and textured geometry. Clockwork Knight looks absolutely dazzling

Featuring a











for it into position, you can use it to climb onto a pre-



Toshinden

(Tales Of The Gods Of Combat)

3D fighting games are becoming the new benchmark for console performance, Takara's polygon-fest looks like a prime contender

Toshinden contains some of the smoothest polygons yet seen and provides further proof of the PlayStation's power



Release date: TBA Origin: Japan

he hugely successful

run of Virtua Fighter (in Janan at Jeast) has galvanized fighting game specialist Takara into action with a PlayStation release that recently

impressed Japanese journalists (joined by NEXT Generation) attending a special presentation at the HQ of Sony Computer Entertainment

Most noted for its conversions of SNK games to the SNES and Mega Drive, Takara has now decided that it has the muscle to go it alone and release an unlicensed game. The result is the one-on-one PlayStation fighting game Toshinden (the title translates, rather clumsily, as Tales Of The Gods Of Combat). A hybrid of VF and

Samural Showdown, Toshinden contains some of the smoothest polygons yet seen, and provides

further proof of the PlayStation's power Toshinderi's greatest asset - a zooming camera that pans smoothly across the eight different

backgrounds - is complemented by a range of superb Gouraud-shaded characters, complete with detailed clothing and even different facial expressions

and hairstyles. Takara's expertise with original ideas is untested, but Toshinden looks like a good starting point.

















mow there's a place MORE VIOLENT than earth.

HMPA BETTER TO GREET YOU ON THE SHORES OF HELL, THIN WORKED PENK DEPONS? GOOD THING YOU PACKED YOUR CHAINGUN, O



NOTHING CLEARS A ROOM OF I FASTER THAN THE BFG 9000



MELCOME TO DOOM FOR THE JAGUAR

64-BIT INTERACTIVE MULTIMEDIA SYSTEM. IT'S

FURE HELL, 64-BIT STYLE. #FROM THE MOMENT

YOU ENTER THE DARK HALLS OF DOOM TILL THE

LAST GUNSHOT OF THE GAME, YOU'LL PATROL

NEVER-SECH-BEFORE LEVELS AND FACE AN ARMY

OF VICTOUS ASSASSINS PRIMED TO TAKE YOU

OUT. # SATANIC DEMONS, LOST SOULS, FIRE
BREATHING HONISTEMS, YOU MAY BE SPOOKED, BUT

YOU SUME WON'T BE CLOWERY. #W IT HIS 32
NEG CALE OF THE STATE OF THE STATE OF THE STATE

AND A BOTTOMLESS PIT OF HIGH ACTION PLAY

OPTIONS, DOOM IS A 66-BIT SHOWCASE CAME

GUARANTEED TO UNLESS HE THE POWER OF JAGUAR.

SO SET YOUR COURSE, PACK YOUR KILLER

SO SET YOUR COURSE, PACK YOUR KILLER

SO SET YOUR COURSE, PACK YOUR KILLER

INSTINCT, AND GO TO HELL.





Fight

for life

Atari will be hoping that the Jaquar's first polygon fighting game achieves the same level of expectation as Saturn's Virtua Fighter





Format: Jaguar Publisher: Atari Developer: François-Yves

Rertrand Release: Dec (US)

Origin: US

fter the mixedresponse to Alien Vs Predator, Jaquar owners will be pinning their hones on Fight For Life, a fighting

game clearly inspired by Sega's Virtua Fighter arcade machine. There's actually a specific connection between the two games: The main programmer of Fight For Life François-Yves Bertrand, worked for a year and a half at Sega's AM2 arcade division before defecting to Atari.

These pictures are from an early working version of the game with 900 polygons onscreen; 1,200 polygons at 20fps are promised in the finished version. In comparison, the Virtua Fighter coin-on boasts between 1 500 and 2,000 per fighter and the Saturn conversion will have almost 2,000 in total. Fight For Life employs the same expedient as Saturn Virtua Fighter to get around its relative lack of polygons: texture mapping. About 20% of the polygons will be textured to provide details like tattoos, logos and some facial features

Fight For Life is set in hell, although the four backdrops are Chicago at night, a beach and two mountain scenes. There are eight fighters: a ninja, a docker, an American GI, an Amazon, a boxer (Ballrog style), a Tuareg tribesman, a 'golden girl' and the son of the devil - all

fighting for the chance to live again. A couple of features are at least original. Firstly, you can 'record' each fight and play it back afterwards. Also,





your fighter begins with only a few moves and 'learns' those of his defeated opponents. This gives each contender up to five special attacks.

If Fight For Life can succeed in doing even a passable impression of Virtua Fighter, then it should go some way to help Jaguar's chronic lack of decent games.

Your fighter begins with only a few moves and 'learns' those of his defeated opponents. This gives contenders up to five special attacks

Gex

32bit platformers are a rare breed, 32bit platformers starring reptiles are even rarer. **NEXT Generation**

> samples a 3D0 game that is definitely one of a kind



Crystal **Dynamics has** chosen as its hero a hyperactive gecko lizard with a twisted sense of humor and the voice of Dana Gould

Format:	300	Crystal
Publisher:	Crystal Dynamics	accepted vide making Gex's animal. Slight
Developer:	Crystal Dynamics	the fact that eponymous h
Release:	TBA	lizard with a
Origin: US		and the voice an HBO come to the plot, Go the Media Dir
0	stal Dynamics has	dominated by

already gained a reputation as the 3DO's most loyal champions. Gex sees the company heading into uncharted territory with an effort to produce the first 3D0 platform game.

Dynamics has followed ogames wisdom by central character an tly less conventional is they've chosen as their ero a hyperactive gecko twisted sense of humor of Dana Gould, host on edy special. According ay has been sucked into mension, a place kitsch culture - '50s B movies, lunchtime game shows, etc. His object is to destroy all the television sets in this lurid limbo and then defeat arch-enemy Rez Zul. All Gex's movements -

consisting of over 450 frames of

animation - were created on SGI





most other justifier that are the control of the co



Giorioue 32bit visuele like these ere no guerentee that Ges will cut ony ice this holiday with consumers experly eweiting the release of 16bit games Sonic 4 and DXC

Grc has other lizard-like resources: when confronted by an enemy he can use his thrashing tall as a weapon or lash out with his dartie torque. Power-ups are also available: bluebottles and dragorfiles take the place of the more usual rings and coins and allow Gex to fly or throw fireballs. Elighteen months after launch,

3DO has a representative from almost obvious absence being a killer platform game. Although Gex, with unorthodox main character and obscure cultural references, isn't exactly standard platform fare, it could prove to be the format's equivalent of Mario.

uperbly detailed (top). Gex has

With two new characters and upgraded graphics, Sega's sequel to its mold-breaking fighting game is sure to have fans slavering

Fighter 2

Format: Arcade Manufacturer: Sega Developer: In-house, AM2

Release date: Dec (Japan) Origin: Japan



bsent from the show floor at AMOA but hogging most of the limelight at JAMMA was Sega's seguel to its revolutionary Virtua Fighter. Now roughly 75% complete, Virtua Fighter 2 includes

extra memory, enabling the screen to draw further into the distance. This was one of the most noticeable problems that Daytona USA suffered from

The development of VF2 involved Sega's AM2 supremo, Yu Suzuki, taking a special trip into the heart of China to seek out guidance in the art of unarmed combat from kung fu experts. One new



character. Shuntel, is based on a martial

arts master Suzuki encountered on his

opponent, before lurching in for the kill. Despite this display, he is said to be the

most skillful in the game. The second

travels. A wise old man with a drink

problem, Shuntel totters around the

screen, thoroughly confusing his

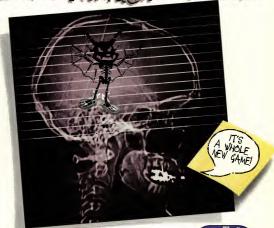
Shintei is a wise old man with a drink problem who totters around, confusing his opponent. before lurching in for the kill

two new characters, runs at 60fcs (twice the speed of the original) and can shift 300,000 textured polygons every second. Sega is also adding extra. touches, like logos on the characters' clothes and new 3D backdrops. **NEXT Generation** has learned that the Model 2 board used for VF2 has been sped up and now includes

addition. Lion. Is modeled on another kung fu fighter Suzuki met in China Although Sega has so far kept its latest coin-op creation behind closed doors - even at AMOA - Virtua Fighter 2 will arrive in the US late first quarter '95: Plenty of time for anticipation to reach fever pitch.



Get It Through Your Skull





93 94 Neo-Geo

94

98 Sega CD

99 Genesis

102 SNES

104 Arcade

FIFA International Soccer 3DO Alien Vs. Predator Jaguar Star Wars Arcade 32X Burn:Cycle CD-I Aero Fighters 2 Neo-Geo Relentless PC Loadstar Sega CD DKC SNES Killer Instinct Arcade



The very latest in interactive entertainment reviewed and rated...

90	3D0	3D
92	Jaguar	Alone in The I
93	Sega 32X	Publisher: Interple

PC CD-ROM

aims to review the mos

ind innovative games each and every month. Those games

stars for overall quality,

innovation and — that magic airty - gameplay. This is no

read Game Players, PC ser or CD-ROM Today! for

nore in-depth reviews): Think

finals as a monthly update

of what's new. Here's what the

antly conceived and

flawlessly executed: a new

A high-quality and inventive new game. Either a step

or a succesful attempt at

example of an established

tent: certainly

creating a new one

*** Good

forward for an existing genre,

star ratings signify

*** Excellent

**** Revolutionary

ed are rated out of five

iting, revolutionary

Size: 1 CD-R

One the most innovative titles to come out of the PC arena since SmCity, Alone in the Dark is an unlikely combination of H.P. Lovecraft-style mythos set in a strange world of multiple camera angles and animated polygons. As the character Carriby, an oldschool private eve with a misse you'll confront an otherworldly mansion full of zombies, ghosts. and demons straight from the pit of hell (really) in a battle for survival. Alone's subtle mix of eerie music, grim animation sequences, and suspense-filled storyline create an atmosphere of tense horror that adds an

interesting new twist to the standard graphic adventure. Rating: ***

Demolition Man

Developer: Virgin IE Size: 1 CD-ROM Release Date: Available now

We'll concede an extra point for sheer verve. Demotton Man follows a well-established pattern by taking an existing game and adds digitized goodles to spruce up what's an unonginal design. But the game then goes a step further by aping no less than four different kinds if games; an Operation WolFstyle shooting gallery, a side-view fighting game, a driving game, and a Doom rip-off, It sure breaks things up and keeps you on your toes, and if any of the individual stages were crafted very well it might have worked. Unfortunately, that didn't happen. Rating ++

John Madden Football

Publisher: Electronic Arts Developer: Electronic Arts Size: 1 CD-ROM Release Date: Avelleble now

For those players who haven't had a chance to see EA's John Madden Football in at least one of its many incarnations, this

newest 300 version is definitely worth taking a look. Every bit as exciting and easy to play as the onginal title. John Madden Football takes advantage of 300's custom animation hardware to create smoothly animated images that make it

believable world around the race track: from the inventive cityscapes to the deliberately annoying show host. There are even cutaways to technicians in the control booth and spectators watching at home, it would seem that every new piece of hardware



es from FA and Crystal D

seem like you're watching a real game on TV. In addition to the mal NFL teams, the game also includes a score of classic teams from football's past. There is an all-Madden team consisting of today's greatest players, and best consisting of the best players in footbell's history. This is simply the best arcade-style football ame currently available.

Rating **** Mega Race

er: Cry er 1 CD-POM

This is a fine example of how digitized video and 3D animation can be used to add to gameplay rather than substitute for it. At its heart, Mega Race is a great racing game, offening 14 tracks in five settings, all beautifully texture-mapped and animated on SGI workstations, with enough arduous opponents and bizarre obstacles to provide a solid, entertaining challenge. Then the game builds a complete and oddly needs to proves itself on a racing game, and this could be the 3DD game to compete with Daytona, Ridge' and Cruis'n', Good stuff, Rating: ****

Pataank

Rating: **

Publisher: P. F. Mac Developer: P. F. Magis Size: 1 CD-ROM Release Date: Aveilable n

P. F. Magic scores a point for being creative: Patasnk is a pinball game with you as the pinball. You steer the ball (actually, it's more like a flying saucer), knocking into targets "conquering" three play fields. The system's 3D folios are nicely utilized to keep things swirling around, and the animated bitmapped 'movies' playing everywhere are fun, but the results are as confusing as they are unique. Even worse, all three of the pinbali arenas are way too similar - once you get the hang of it, which takes maybe 10 minutes at most, you can breeze through the rest of the game. It's an interesting idea, done badly.

game style

latly flawed in design or application

Road Rash

Publishar: Electronic Arts Devaloper: Electronic Arts Siza: 1 CD-ROM Ralaase Data: Availabla now

Dies of the elements that made the cartridge version of EA's violence-feet, Road Rasin, solidly to give players a truer feeling of speed then any game before it. Now armed with the processing power of the 3DO, crisper digitted images, and silly smooth animation, EA adds realism and deep to the power realism and deep to the power.



Smooth animation and control give on unmatched feeling of speed give Road Reah e real of

and valocity of its predecessor. Sticking with the rest of the good and the particle of the good and the particle of the good and the particle of the good and good good and g

Shock Wave

Publisher: Electronic Arts Devaloper: Electronic Arts Size: 1 CD-ROM Releese Date: Aveilable now

Shortly after the release of every new game platform, one expects several games to quickly pop up attempting to pass off an old school, arrade shoot 'em un as the pinnacle of technology. After a few short minutes with Shock Wave, it is obvious that behind the video actors and CD quality sound is merely a hopped-up remake of Battlezone, While EA has done a fantastic job creating beautiful backgrounds, some wonderfully spheric introduction sequences and snister opponents, the tedious and repetitive gameplay soon becomes utterly joyless, If you own a 3DO unit and you've just been dying for a no-frills shooting game, then it's DK. But anyone with greater expectations will be disappointed. Rating: **

Soccer Kid

Publisher: 3D0 Daveloper: Krisalis Software Size: 1 CD-ROM Release Date: Available now

The real problem here is that aside from a confusing plot and the addition of a soccer ball, there isn't enything new in Soccer (ACM—It's just another PC phatform game. Each of the 25 belies comes at on running through a landscape kicking the soccer but it among depote and picking the soccer but it among depote and picking reach your gool (no pure intended), Hopedally, 2000 can evive past this type of game fester than the systems of yesterday.

Rating: ** Star Control II

Publisher: Crystal Dynomic Davaloper: Crystal Dynomic Size: 1 CD-ROM Releese Date: Availabla no

Star Control M san't so much a sequal size a remake of the original PC and Genesia titles, it has better graphics and sound, and a more involved storyline, but structure and play mechanics are the same: wander about thousands of planets, run from ships bigger than yours pick up thry clues. The voice actors,



Star Centrol II for 3D0 sticks firmly to the formula need in Sta Control for the PC and Genesia.

at least, are good (the cowardly race of Spathi is a hoot), and if you've the patience to spend hours digging for minerals, the game is addictive, but not state of the art. Rating: ***

Super Wing Commander

Publishar: Origin Developer: Origin Siza: 1 CD-ROM Ralaase Data: Availabla now

Success often strips a developer of its innovative spark, but it looks like Origin's Wing Commander team is still devoted to creating games that do more than ride the costtalite of previous releases. Far better than the tepid Super

300







camera viewe look great but often make it difficult to keep track of where other

KICKING!

FIFA International Socce

Publishar: Electronic Arts Davaloper: Electronic Arts Siza: 1 CD-ROM Ralease Date: Avallabla now

More than any other game, FIFA International Societ will raske you glad to own a 300 system. In terms of technical achievement, this is the "killer ap" graphics showborse that Trip & Co. have been waiting for, And "is a great game, too. Whether the dying embers of World Cup Fever are enough to help FIFA fan the flames of 300 hardware salkes, however, is another question."

Unlike EA's other ports, the 3DD version of FIFA has a look and feel that is very different from its cartridge based counterparts. Using a slick, rotating-camers effect, complete with multiple views and more detailed player graphics, the new FIFA delivers an improved, realistic feel without sampling the frenchy interface and flawless two player action that made the original so popular. Ratting: **********

rating jaguar

Jaguar



out heavy weaponry, the colonial ina won't last long in a close fight

than superficial, it determines not only how you will fight and where you can go, but what you're actually trying to do.

The predator is probably the easiest character with which to start, and comes with plenty of nasty weapons and the ability to turn invisible at will. Here, you gain points by 'honorably' killing (no you



can't just turn invisible and start swinging) the other inhabitants of the base. Your end goal is to collect the skull of the alien

Alien characters have the advantages of speed and numbers. Although unable to use weapons, you are able to increase your number of extra lives by placing eggs into the bodies of fallen enemies When you die, you can continue by living

the life of your newly-hatched children. You goal is to find your breed queen Playing a human may not sound like fun, but it's actually the most like watching the movie. As a huma character, you lack the strength or speed of either of the

different races. Instead, you must depend on high-tech weaponry and human craftiness to carve out a path. Your only real goal at first is to merely survive Dn the down side, the game is plagued with ultra-slow load times that really shouldn't be present in a cartridge release. Controls aren't as easy as they could be (sidestep and weapon select buttons are difficult to get to in a heated fight), but neither of these quirks stops AVP from delivering some really good play. Definitely the best Jaguar title we've

seen so far Rating: ****

PPIN Alien Vs. Predator

Publisher: Ater Developer: Ateri Size: 4 Mbits

Release Date: Available now

One of Atan's first holiday titles, Allen Vs. Predator is a Doom like, first-person action game with an interesting twist. Players can choose to take on the role of the predator, the allen, or the marine, all trapped in the same base. Your choice here is more

Nintendo conversion, Super Wine Commander delivers all of what made the original PC version so popular. It also takes advantage of the 300's CD storage space and twin graphics animation processors to tack on brilliant, new plot animations and onso voice acting While hampered by the frustrating 3DO controls (you won't see many fighter pilots using a gamepad), Super Wing Commander succeeds at being what it was intended to

Rating: **** Slayer Publisher: SSI

Developer: Lion Size: 1 CD-ROM teleese Date: Aveileble now

be - a straightforward space simulator with an arcade spin.

With SSI's dark rendition of TSR's legendary AD&D game world role-playing games have finally hit the 3DD. While it resembles such classic PC dames as Drigin's Ultima Underworld and Virgin's Lands of Lore, Slaver nonetheless walks the line between action

and RPG without ever quite achieving either with complete success. Despite an easy-to-use interface and stats straight from the pen-and-paper version Slaver's dull action segments and somewhat straightforward puzzles mostly of wandering around mazes looking for entertainment. All in all, a great first attempt, but far short of market demands. Rating **

Way of the Warrior

Publisher: Universal Interective per: Neughty Dog Size: 1 CD-ROM Release Date: Available now

Way of the Warrior wants to be Mortal Kombat, but it barely comes up to being Pit-Fighter. True, it's got a hard-edged atmosphere beyond the sloppy bloodletting: the 3D rendered backgrounds are mostly well numbers they use for a soundtrack absolutely kick.

However, the characters are one incredibly cheap-looking bunch, the animation is stifted at best and the control is in a sorry class all by itself. Way of the Warrio only proves that no amount of music, 3D rendering and gore can make up for basics like gameplay and rood character design Rating: **

Jaguar

Publisher: Ater

Developer. Id Softs Sirer & Mhite Pologra Date:

Pulling no punches, Atari has decided that Jaguar's new version of Doom will contain all of the blood and demonic references of the original IBM game. Armed with chain saw, shotgun and more, now cartridge players can experience the sheer joy of wandening through dark halls taking potshots at demons, imps, and barons of hell. Modern play is also to be included, and options for both competitive "death-match" and cooperative play modes are supported by the cart. Although slightly held back by its pixely closeups and elustreh control ell of the ection and appeal of the PC version is still bere

Rating: ***



om has all the

Tempest 2000

ablisher: Ater Developer: Lia: Size: 16 MRs Release Date: Available no

By adding crisp, 3D polygon graphics, a techno soundtrack and a swarm of new enemies and obstacles, Atari has managed to create a fresh cart out the 13year-old arcade game. More than just a graphics upgrade, Tempest 2000 offers 100 different boards. new opponents, and power-up



with todays graphics makes for a new and improved Tempest

jumps, and A.I. droids who destroy anything that gets too close. Also new is the 'Melt-O Vision effect' which looks like a psychedelic version of Nintendo's Mode 7. There are also several different play options offering two-player cooperative and competitive play modes. A must for everyone who owns a Jaguar game system. Rating: ***

Wolfenstein 3D

Publisher: Aterl Developer: Id Softwere Size: 2Mbits Release Date: Available now

The game that brought Id into the spotlight is back for yet another run. Far better than the watered-down version appearing on the SNES about a year ago, all of the original game's blood, guts and gore, as well as the cool sound effects have been retained. While this is a better translation than most, Wolfenstein is still a game that's getting a bit gray at the roots. The bland palette which was originally intended for 16-color machines, and limited gameplay options (four different standard enemies) keep the game from ever competing with next generation titles like Id's own Doom, and Alien Vs. Predator. A good game, but just not up to newest games the market has to offer. Rating: **

32X

FORCEFUL

Star Wars Arcade

Developer: Sege Size: 24 Mbits pase Date: Aveilable now

Based on the recent coin-op of the same name, Star Wars Arcade has to produce on 32X what was previously accomplished only on Sega's famed AM2 board, which generated the polygons behind such Sega hits as

Virtua Fighter 2, Daytona USA, and Desert Tank. The result? A fine attempt The 3D graphics are remarkably good, although the absence of texture

manning gives the dame a 'fat' look The music is CD quality, including many songs from John Williams' classic theatrical score. The ship controls well, and most

importantly, the game doesn't force you to fly down a specified 'track' like in Star Fox or Starblade, Also, hint of what to expect from 32X.

eight new levels were created specifically for the 32% version to give the home player a longer replay value. An excellent translation of a good game, and a good Rating: ***



on the Death Ster (top); Tie-Figh



32X

Virtua Racing Deluxe

leber: Secu veloper: Sega ce: 24 Mbits ease Date: Av

Two new cars and two new tracks were specifically created for this 32X version. The increased 32X color palette of 32,768 colors makes a huge difference in the graphics, leaving the grainy, dithered look of the pricey Genesis version far, far behind, The control feels just like the arcade version, even though the game's always had slight problems in this area. It can be extremely difficult to maneuver at even medium speeds, and trying to match the game's challenging course records can quickly lead to frustration. Still, VR Deluxe is a near-perfect conversion of a game that's still fun to play. teting: ***

CD-i

Litil Divil disher: Ph Developer: Phili Size: 1 CD-ROM

Rolense Date: Aveilable nov A children's game that takes full advantage of CD-i's FMV capacity. Litil Devil uses CD storage to its fullest, delivering crisp animations and high-quality sound effects. Unfortunately, unless you're a maze fan, the title is completely devoid of any entertaining gameplay whatsoever. Control is sluggish, offering the player almost no chance of making it through the often furiously paced action sequences. The various levels (fighting, jumping, or maze) fail to offer anything more than a stimulus-response style of play that will have most players (even children) disinterested inside of a few minutes.

Rating: *

The 7th Guest Publisher: Philips

Developer: Trilohyte Size: 1 CD-ROM/DV cartridge lease Date: Available nov

Trilobyte's 7th Guest is a perfect choice for conversion to CD-i: the dutital video cartridge eliminates many of the skips and jerks of the PC release, resulting in a smooth, wonderfully cinematic experience previously only possible on a Pentium. There are a couple of problems, however. First, the increased play speed saps a lot of "Guests "creepiness" - you're now jogging confidently down corridors instead of tiptoeing, Second, puzzles originally designed for a mouse interface are hard to operate with CD-i's clunky remote. But minor glitches aside, the smooth video, crisp sound, original tracks featuring the almost-famous FAT MAN' -- combined with devitish puzzles - makes for a lavish CD-I game.

Rating: ***

rating neo-geo cd-i

CD-i



Pionoering hurts, as CD4 paves a trail for interactive movies to come

HEATED

Burn:Cycle

Publisher: Philips Developer: Tripmedia Size: 1 CD-ROM Release Date: November 1

Ohis codest title on the flumming with an involve raise of very stringturing good and build not the verbush-give with "interactive more" gene. The basic story is as centers raising as a good misl orders, with upunity acting, a professional score, with a spit statified out of neuronamon. Set which the games is public content is build more of interactives. Set which the games is public content is build more of with the fluid proteined either the CDT's hypoxile and to appear for the paper of action or flumming-ties codes simply land up to the gold. Either way, the cent entire is a game that build push lose a limitation there would, but were delivered the interactive power recompany to know you will be a set of the public public public public public public and a demonstration and make the public pu

Experienced arcade thrashers will wonder what all the fuss is about. Rating: ***

.....

Publisher: Philips Developer: Philips Size: 1 CD-ROM Release Date: Available

Probably the best interactive movie available, Voyeur uses competent actors as well as studio quality sound and visual effects to create an intriguing political thriller. While most players will spend their first few hours watching for the scattered scenes of sex and violence, the game has enough backbone to remain entertaining after the novelty of half-dressed women has worn off. Along with a simple interface and loads of high-quality video, a complex plotline filled with incest, back stabbing, and blackmail will keep players interested and involved. Although it won't appeal to action fans. this title has enough depth and

replay value to be a valuable addition to any CD-i library. Rating: ***

Aero Fighters 2

Publisher: SNK Developer: Video Systems Size: 102 Mbits Release Date: Available now

Aero Fighters 2 is an old school, overhead shool/emup that's surprisingly small for a Neo-Geo release, Playors can choose from one of eight different plicts, including a tabling dolphin, each with his or her own plane (F-11/ 4-10, FSX, etc.) and then fly though eight varying stages from around the world. But while graphics and sound are areade qualify, the game itself grows qualify, the game itself grows tedious very quickly. Players with any skill will best the game on the easy or normal level in under an hour. The higher levels offer more challenges, but not new ones.

Aggressors of Dark

Publisher: SNK Developer: Alpha Denchi Size: 178 Mbits Release Date: Available r

A fighting game with all the extras, Aggressors of Dark Kombat is an entertaining mix of the Street Fighter listyle tournament fight with the



Chivalry counts for nothing in

dimensions and weaponry of Final Fight. In addition to the usual barrage of punches and kicks, characters can mix it up using Molotov cocktails, shovels, and even baseball bats wrapped in barbed wire. The eight fighters available are not all typical fare either: a young basketball player, a Japanese street punk, and even a uniformed schoolgirl. Although moves are difficult to pull off. ADK's crisp look and powerful action make it well worth the trouble Rating ***

PC

Colonization
Publisher: Micropre

MPS Labs borrowed heavily from classic his of the past to create a surprisingly addictive title with a financer all its own. Colonization to a strange hybrid, combining the class of EA's Seen Colless of Gald, the interface of Civilization, and the soundtrask of Railroad Tycon, with situations and amosphere that is entirely new. The complex strategies of localing with eight offleren trabes and the encroachments of three other land-hungry countries, while



Keeping track of diplomacy, food weaponry, and local tribes can be a manufact, tack in Chillration

keeping track of 16 different kinds of production balanced with simple controls and a helpful tutorial, keep the game absorbing and enjoyable for strategy hounds and newcomers alike.

Delta V

Publisher: Bethesda Developer: Bethesda Size: 17 MB

At first glance, Delta Vis lightingfast aimstion and Glooreeagus storyline is definitely excling. While the game's high speed and Gouraud shading are technically impressive, the gameplay never changes thoroughly enough to deliver any long-form enter transment. No matter how fare you get into the game, or how many new weapons and gadgets exerced on emission, it's just plain hard to move beyond the fact that for all its extras, Deta Vis like

playing the trench stage of the

original Star Wars arcade game

over and over again. Welcome home Luke... Rating: **

Doom 2 Publisher: G

Developer: Id Softwere Size: 16 MBs Release Date: Aveilable nov

After the runaway success of the original Doom, it seems that Id is content to sit on its laurels rather than push the envelope farther Doom 2 looks more like an add-on scenario than a sequel, OK, so there's a slight graphics upgrade (greater variance in scenery texture maps and bad guys), a double-barreled shotgun and a handful of new enemies. But basically, the game is nothing more than a collection of nev maps for the first title. Now that become the design of choice for the entire industry, ld will need to find new innovations, or it will quickly find it's playing catch-up in its own game niche. Rating: ***



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Coming soon



The Fortress of Dr.

Size: 1 CD-RON se Deter Av

Take Doom, add great, new rendered graphics, a sense of humor and you've got The special-agent Mack Banner, you must take on the mysterious (and very eccentric) Radiaki, a

household appliance tycoon bent on world domination. Armed with only a baseball bat (and

later a host of gear including swords, flamethrowers, and granada launchara), vou'll face all of Radiaki's twisted experiments - burly Cuban soldiers, ninjas toaster-headed robots, suicidal samurai and even alligator men on your way to take on the warped doctor himself. In spite of a quirky control system that makes it difficult to hit some targets and discrienting movement mechanics that take a while to get used to, the game's incredible graphics and tongue incheek cult-film atmosphere are sure to appeal to fans of other

Malcolm's Revenge

er: Virgin ner: Westwo Size: 1 CD-ROM

After saving the world in the first two Legend of Kyrandia titles, you now have the opportunity to



Definitely something di awards points for sense

utterly destroy it. In Malcolm's Revenge, you are the insane, magic-slinging jester in a bizarre game of revende. A major upgrade from The Hand of Fate, this installment offers orisp objects with 3D feel, and painting-like backgrounds that complete the strange, rural landscapes of Kyrandia. New play controls have also been added, including a conversation stance icon that factures nine normal or densiths settings. The brilliant visuals, a great sense of humor, and truly challenging puzzles will remind you what a great graphic adventure is all about.

Rating ++++

Master of Magic

er Simtes lize: 25 MR en Date: A

Master of Magic takes the comfortable strategies and interface of Civilization and adds magic and monsters to create an unusual mix of politics and sorcery. Your player must gain nower over as many as four

opponents by erther eliminating them or eatherine enough power to magically subjurate them Diglomacy also plays a key role, and

intelligent players will po their enemies adainst each other to save their own resources. While

it's very similar to Civilization MOM has so many new featurer (200 army types, 210 spells of 6 different types, including nature, death. Rife, chaos, and sorcery colleges, and 80 magic items) that it stands very well on its own. Beginner players may have some trouble with the same's high level of complexity and often hardto-follow instructions, but veterans will be satisfied.

Reting: *** Rating: ****

NHL Hockey '95

lisher, Electronic Arts Developer, Electronic Arts Size: 1 CD-ROM Pologeo Date: Ave

Electronic Arts' follow up to one of the best sports games to hit PC. NHL '95, is more than just a statistics update. On the gameplay side, expansion teams, fake shots, drop passes, one-onone penalty runs, and laying down



in Master Of Magic, finding naw e Sebtine hostila wizzeris requires a subtle, strateric ba

on the ice have been added along with management options such as trading and creating players. Play graphics have also been improved with crisper images and new player animations. With the increased storage capacity of CD ROM, EA also manages to fit in great FMV footage of actual NHL games, digitized sound effects and music. A must for any serious hockey fan

Rating: ***

ROUNDED

Rejentless

first-person shooters.

ıblisher: Elec per: Adeline

Brought to the US by French publisher Delphine, Relent/ess is an elegant cross between a classic graphic adventure and an action game. Visually sim to Infogram's Alone in The Dark, the game uses texture mapped polysions to shape its twisted world. An equally entertaining storyline takes the player through the perils of life in a land where strange clones and a ruthless dictator make life 'unpleasant.' Relentiess is easy to control with four different stances allowing your character to fight, jump, sneak, and manipulate the various items in the game. Although puzzle content is light, there's still enough of a challenge here to keep most players happy from start to finish.

Rating: ****

rating sega cd

Sega CD



If you buy Rocket Science's Loadstar, here's what you're paying for: stars you've never heard of on expensive digitized video



Here's the actuel game part. This is the bit you play. Seen it befo Of course you heve, only last time it was called Sewer Shark, or Microcosm, or Rebel Assault. Get the picture?

GROUNDED

Loadstar: The Legend of Tully Bodine

Publisher: Rocket Science Developer: Rocket Science Size: 1 CD-ROM Release Date: Available now

Roots Source received a tot of good press while fillming in first game, Lookakin The Laged of Pilip Dolonis, redologing from on "Headine New". But all the company has managed to do as to prote just from the contract of the period. For all the believe the contract of the contract of the shortest end on their frontia. From an administration, but there stopps of shortest end to state from their form of the contract of shortest end to state from their form of as a wide range of similar titles from which to choose. The only fining flow any good for a shortest poople with square, expensive, malitancial system can do by "woming" from with digitative views. Look, Section "Shark comes the will be suffered from the digitative views. Look, Section "Shark comes the will not suffered from the digitative views. Look, Section "Shark comes the will have suffered from the digitative views. Look Section "Shark comes the will not suffered from the suffered from the contract of shark section that the sum of shark section is the sum of shark section of

PGA Tour Golf 486

Publisher: Electronic Arts Developer: Hitmen Productions Size: 1 CD-ROM Release Date: Available now

In the attempt to beat Access Links 486 to the market Electronic Arts has produced a machine intensive simulator (486 DX 50MHz w/8 MBs of RAM and a double speed CD-ROM recommended) of its own Unfortunately, all of the great extras this game has to offer-Super VGA digitized backgrounds and enimations; actual players and stats from the PGA tour; and four different ways to play aren't guite enough to offset the game's snailike performance even on a maxxed-out system The near continual access delays from both the CD-ROM and unnecessary user prompts, along with a frustrating targeting system, will keep all but the most die-hard golfers from ever being entertained. Rating ++

Quarantine Publisher: Gametek

Developer: Gemetek Size: 1 CD-ROM Release Date: Avellable p

In one of the most innovative uses of the first-person game engine so far. Quarantine puts you in the shoes of a futuristic cab driver Strange and violent throughout, it is a noteworthy cross of action. racing, and shooting gentes with just a touch of role-playing added in for good measure. Graphics are a touch on the grainy side, but interface more than make up for it. Plenty of new weapons and powerup items along with different mission options give the game long term play potential Bloody fun for budding psychotics. Rating: ****

SEGA CD

Battlecorps

Publisher: Time Warner Developer: Core Design Interactive Size: 1 CD-ROM

Release Date: Aveilable now Core was the design team responsible for one of the best

responsible for one of the best Sega CD titles ever: AH-3 Thunderstrike, Battlecorps uses the same engine, but in trading the flying machine for a walking robot, the net effect is the



Entitlecorps uses an engine designed for flying and uses it in e game of welking. Not bad if you can live with the grephics

slowing down of action. Big mistake, It's still a relatively existing challenge — there's a variety of terrain, including a few key underground levels, and you've got a wiste selection of weapons. But brimage that look time if you thy by them look blooky walking up to them. Oh well, we'll keep waiting for Thunderstrike II. Retites: **x**.

Lethal Enforcers II: The Gun Fighters

Publisher: Konemi Developer: Konami Size: 1 CD-ROM Releese Date: Available now

It isn't a bad game, but Lethal Enforcers probably caused more of a stir in Congressional hearing than in software stores, it's about as innovative as a Red Ryder BB gun, but this straight-up action holds undeniable no-brain appeal. The sequel chucks the drugdealing terrorists for cowboys and keeps the player from repeating stages over if too many civilians are shot. The graphics aren't as good - the desert earth tones all blend together but it's more challenging, since many more of the targets move this time. If you liked it once, you'll like it again. Rating: ***

Mickey Mania: The Timeless Adventures of Mickey Mouse

Publisher: Sony Imagosoft Developer: Trevellers Teles Size: 1 CD-ROM Recleese Date: Aveileble now

At its heart, this is another sideprofiling action game, although a progress one. Although the 16color Sega palette keeps it from looking as good as the SNES version, the CD based soundtrack basis a 25 peace or chestra that more than makes up for it. You'll also find an extra couple of levels that wouldn't fit in a 24MB cert. There's just enough innovation.

-

here (including an oncoming perspective only used once before, in Virgin's Lion Kingl to make it a must, and if you've got kids, I think it's the law. Ratinct ****

The Masked Rider

Publisher: Sega of America Developer: Toei Size: 1 CD-ROM Polesse Date: Available per

Here we go again. This is another in the "action-reaction" style game that started, oh, ten or fifteen years ago with Dragon's Lair. You know the kind: Watch the video. then tap the control pad the way the game tells you. The only item of marginal interest is that the video is based on Rider ZO, the latest in a 25-year long running "Masked Rider" senes of kids shows in Japan. It's guy-in-rubber suit action at the "Ultraman" level which has a certain appeal to some folks I know. But as a game, it's almost worthless. Rating: **

Snatcher

Publisher: Konami Developer: Konemi Size: 1 CD-ROM Release Date: Jenuer

For Sega CD, this is mildly ground breaking. The approach is very Japanese, moving mature character relationships (in what other game do you have to worry If your wife wente a divorce?! with revered harde talk of STDs than throwing in a cute, robot sidekick and other strained comic relief The CD-based dialogue could have been supplied by better actors, and there's no consistent way your character can pick up and handle objects, but as long as you don't mind the schizo handling of the material, it isn't all bad. Rating: ***



Gloppy, severed heads prove this isn't for kids, but edults will have to suffer the goofy robot sidekicks

GENESIS

Contra: Hard Corps

Publisher: Konami of America Developer: Konami of Japan Size: 16 Mbits Release Dete: Available now

Konami's successful Contra series dates back to the 8bit NES, But for the first time. Genesis owners can partake in the mass camado only a Contra game can give. Just like its predecessors, Contra: Hard Corps plays at a fungus pace. The lack of a life meter means one hit and you're dead With three lives and five continues, you can only sustain 15 hits while trying to jump and shoot your way through five boss laden levels. You choose between four unique characters, each with its own advantages and disadvantages. There are also points in the game where you must choose which course of action to take (whether to chase an escaping enemy or stay and defend the base). Either way you're sure to run into hordes of original foes (like a glant, dancing, cartossing cyclops). Contra: Hard Corps is the ultima side-scrolling shooter and a beast of a game that won't be easily defeated. And that's official Rating: ***

Dynamite Headdy

Publisher: Sega Developer: Treesu Size: 16 Mbits

Size: 16 Mbits Release Date: Aveileble nov

The developers at Treasure (the hot Japanese team responsible for Guristar Herces and Super Castilvania) have given Sega the perfect platform mascot to help take the load off the everaging Sonit. There are nine levels of decodedly original gaming as

> jumps through his movieinspired world (Toyz 'n the Hood, Spindsrella) with his flying puppet head as his only defense. The vanety of heads (triny head, sleepy head, bomb head,

Headdy runs and

bomb head, hammer head, to name a few) each serve their own unique purpose in this

Sega Genesis



Earthworm Jim wee once e humble eerthworm, until a magic robo-su fell from space, landed on hie head and turned him into e superhero



POLISHED

Earthworm Jim

Publisher: Playmates Developer: Shiny Entert Size: 16 Mbits

A lot has been written about Shiny Entertainment. The hype

A lot, has been written about smit; Interhalment, I've hype generated by one amilable programmer, his furity teem and a decent track record comes second only to the buzz coming from Rocket Sciencies's ScOmillion mission control. But here the attention is justified.

It all started in 1993, after David Perry's enormous

success with Virgin's Aladdin earned the programmer enough color and money to form Shirty First-lairment in sun-detected Lagians Beach. Iurning down lucrative deals to develop further lonnsed products, Shirty instead decided to develop on original character. Next, they evolved the Dipicell technique used in Aladdin into a process called Anmotion. Thirt, they poshed it until it shired. The result: a hero called Earthworm Am and ammittan twice as smooth as Aladdin.

These ground-breaking visuals, however, simply enable some rock-solid, back-to-basics gameplay to strut its all-too-elidom-een stuff. There are secret stages, hidden items, machine guns, wonderfully inventive chracacters and even flying cows.

Sure, it's only a slick 16bit platform game. And anyone looking for anything revolutionary will be disappointed — there's nothing structly new here, But it's a whole load of fun, and that's what counts. Retling ****





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The game other fighting games would kill t

would Kill to be.

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Mortal? Be Eternal.





Sega Genesis

EVOLUTIONARY

Sonic And Knuckles

Publisher: Sega of America veloper: in-house se: Aveileble now

Basically, this is the same Sonic game that Sega has sold for the last three years, just wrapped up better and with a prettier ribbon. In fact - taken at face value - it's nearly Indistinguishable from Sonic 3, released only eight months ago.

However, The company's latest character, a red echidna with dreadlocks called Knuckles, has a certain hip appeal that Sonic is starting to lose. And even more importantly, this cartridge is the world's compatible with older games in the Sonic

A slot in the top accepts previous Sonic carts and enables you to play them starring Knuckles instead of (vawn) Sonic Does this make Sonic 2 less tedious? Well, no. But it is an impressive technical feat and if it points to a

future where old games can be given a new lease on life with "mission carts" similar to the expansion disks that have long been available for PC titles, then NEXT Generation is all for it.



ic game screen. Is he a hip ne or Senie is Rnd? You make the call



tough game. There are bizarre and helinous monsters (a glant dancing weinerdog, an oversized baby head, etc.) punctuating each

monstrous level. Unlike most games, no two levels or bosses look alike. Most importantly. Dynamite Headdy is loaded with good old-fashioned fun, and that's what gaming is all

Rating: ****

about Isn't It? Rating: ****



Mickey Mania: The Timeless Adventures of Mickey Mouse

Publisher: Sony Imagesoft Developer: Trevellers Teles Size: 16 Mbits

Release Date: Avelleble nov Sony Imagesoft and Disney paired up on Mickey Mansa, siving developers full access to the

immense resources of the animation giant. New drawings from Disney help to make Mickey's fluid movement just as good, if not better, than Aladdin's. Each level is based on a classic Mickey cartoon. The game starts with Mickey's first appearance in the black & white Steamhoat Willie then features classics like Mickey and The Beanstalk and The Band Concert (If you find the secret area). Intenious action like Mickey carefully mixing a potion while being attacked from every side, makes it hard

to nut down

Rating: ****

NHL '95

Publisher, EA Developer: High Sco Size: 16 Mbits e Dete: Avelieble :

Arguably the best sports series to grace a game system, EA's MHL series continues with MHL '95 with several significant changes. Now it's possible to create your own players, play a full NHL season (complete with injuries, but no strikes), and even make trades. There are full rosters of all NHL teams, real players - you "are," temporarily at least, Gretsky and Lemieux and up to four people can play. The only thing missing is the perenially-popular fighting cvidently the NHL thought it was bad for their Image), though the players are bigger, faster, and the goalies are tougher. EA shoots and scores again with the best NHL action anywhere, and possibly the only NHL action anywhere. Rating: ****

Shaq Fu

Publisher: Electronic Arts loper: Delphiec Size: 24 Mbits

EA places Shaquille O'Neal's unique persona in a smoothly animated fighting game. The 24Mbit genesis cart boasts of four more characters and harlomounds than the 16Mlyt SNES, bringing the total of each to 12. Delphine - the developers of Flashback - wanted to produce the smoothest animated fighting game possible, and succeeded: the characters in Shag Ru rotoscoped from live actors, gives the final animation twice the number of frames per move as in SSFII. The moves are pleasing to watch, but hellish to use. After each move, you have to wait for all the animation to end before executing the next move.

Shaq Fu includes everything a good fighting game needs, with the exception of good fighting. Rating: **

SNES

APING MARIO?

Donkey Kong Country

Publisher: Nintendo Developer: Rere Ltd. Size: 32 Mbits Release Date: Aveilebia now

Rare Ltd., the company behind Nintendo's first Utra 64 titles, offers the first axer, completely rendered 188ht game. Dankey Kong Country. First, the obvious. Rendered characters and the superior color palette of the Super NES give DNC the best graphics ever soon on a console game. Surprisingly, Nintendo still country de one more — in many cases the game skips a few shades and activity uses a little or soon of the state of the sta

dithering to save memory space.

The game is an excellent example of what the Super NES can really do, but it surfortunately sets a benchmark no one class is likely to meet. Who but histendo can affect its expensive 32Mbit carts? Even so, one can expect Mintendo can discuss this tips can't rend to percedually south 52Bbit size into grant 52Bbit size into a discussion of the the next description of the second cash value.

corsoles hit late next year.

After all the hype, DKC really is an amazing cart. However, the gamepley falls a har short of the typical Ninterdo blockhauser. Although it's no Marior or Zeldas, the game plays well with planty of hidden items and secret rooms to keep even the most dedicated players busy for some time to come.



Berreis — if for no other reason than for tradition — play a centra role is the proceedings, be they thrown or rode on

Samurai Shodown

Publisher: TAKARA Developer: SNK Format: 24 Mbits Release Date: Aveileble no

> This cult areade hit, originally made for the prohibitively expensive Neo-Geo, has knifed its way to the 16bit market. Each of the 11 characters (one below the original 12) has a sword of some kind, from sizable scimitars to razor-sharp rapiers. There's the usual jumping, punching, and loads of tough to pull-off special moves. It's even possible to lock swords and disarm your worth opponent. Other than that Samurai Shodown doesn't do much to justify its use of 24 Mbits. The graphics don't match up with the champs (SSF II and MKII), and the zooming in and out, popular in the arcade version. didn't make the cut

However, fans of the arcade game won't be disappointed with this solid translation, complete with blood and all the vaned endings of the onginel,

Rating: ***
Urban Strike

Publisher: Electronic Arts Developer: The Edge Format: 16 Mbits

on Date: Av The jungle and desert have been saved so now it's on to the cities in Urban Strike. The game plays just like the earlier versions, but the unique battlegrounds make this game fly. There are chances to blow up US cities - Las Vegas. San Francisco (but why not Cleveland?) - and take off by foot, chopper, and tank through eight levels and 55 varied missions (running through casinos, saving Elvis, etc.) Flying through the neon lights of Vegas at night is breathtaking. Fog-covered San Francisco is complete with

recognizable are like the Golden Gate Bridge, Transamerica building, and the South of Market district - a place we've been bombed many times before (That'll be an 'in' San Francisco loke -Ed.). With all the great scenery, Urban Strike should be the best Strike game vet.but there's nothing new in the

gameplay department, which is a shame. Ration: ***

SNES

The Adventures of Batman & Robin

Publisher: Konemi Developer: Konemi Size: 16 Mbits Release Date: Avelleble p

Even though one can't choose to be Robin (as the title suggests) this standard platform game is a faithful transistion of the hit Y show. The character and background graphics are true to the cartoon, and practically every character to appear on the show is included. Unfortunately, the game's diverse play is flawed by a slow-moving character that can make it difficult to pull off quick



EAR's graphics end enimation o very true to the top-rated carton

jumps or attacks, in addition, the wildly varying difficulty levels often leave the game way too easy or frustratingly hard.
Rating: ***

The Lion King
Publisher: Virgin
Developer: Westwood
Size: 24 Mbits

Virgin's Digicell animation technique is capable of producing brilliant graphics, but it's a gimmick that's been beaten to



Virgin's Lion King not only looks great, but pla great tee. Young children will simply love it





















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The Swings: Each pro was filmed then digitized into the game. Drives, fairway irons, chips, sandblasts and putts are seamlessly overlayed onto majestic TPC courses.



IBM PC-CD



N PC-CD SPORTS.

You're paired with Stadler, trying to catch Kite on the back 9 of Swgrass. First you made the cat. Now you're in the money and have a abot at a PGA TOUR' victory. PGA TOUR' Gelf 486 has the pros, the pressure, the courses, the yips.





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rating arcade

death by Aladdin copycats. To set itself apart from the pack once again, the company has worked its magic on gameplay.

Each level holds unique elements, like the split-second jumps in the Elephant Graveyard, or riding the waterfalls in the 'Hakuna Matatta' stage. Control is also excellent, and even though the game is much harder than Aladdin, it's never unfair or frustrating. After topping its own industry-setting Aladdin, where can Virgin go from here? Maybe Disney's next film, Pocahontas, has the answer... Rating: ****

Mortal Kombat II

Isher: Accleim Developer: Sculptured

Release Date: Aveileble now

The once "child-safe" Nintendo

ensure an equally bloody version

first Nintendo game ever to carry

a content rating on its box. This

SNES version is unquestionably

better than the Genesis cart in

every way. The graphics are

of MKII. As a result, this is the

actually called up Acclaim to

Size: 24 Mbits

Rating: **** Pitfall: The Mayan Adventures

changed the game completely for

features smoother, faster players

and a new, off-basket perspective

Every official rule is now included.

licenses are again used. Shooting

has a much better feel, there's a

one in NBA Jam), and some neat

finishing touches, the random

stats after scoring and taunting

after a dunk. Live '95 emerges as

the best basketball sim' available.

turbo speed feature (similar to the

this '95 release. A new engine

and the NBA team and players

Publisher: Activision Developer: Red Line Size: 16 Mbits Release Date: Available nov

While most would be hesitant to admit it, the Atari 2600 has kept many in thrail for hours at a time, holding its players glued to the screen despite stone-are visuals and sound. Now, one of the most addictive, ancient-platform games over has returned from the grave to take on the legacy of platform jumping games it helped to create. Activision's Pitfall: The

Mayan Adventures introduces Pitfall Harry,



Wholesome fue for the family? Safely behind a rating, Mortal Kombat 2 sticks a finger to Senator Lieberman

ncher, the sound is deeper, and the control is smoother, Almost every secret trick has been ported over as well, with at least 10 more codes added just for this version. With full creative license. Acclaim has produced possibly the best arcade conversion ever Rating: ****

NBA Live '95

Publisher: Electronic Arts Developer: Electronic Arts Size: 16 Mbits Release Date: Ave

Last year EA dropped the "Bulls vs. whomever" heading, and

graphics and sound combined with gameplay that is, at best, tedrous and uninspired, leave Pitfall interesting as a novelty, but not Rating: **

X-Men: Mutant Apocalypse

leber Ce Developer: Cep Release Date: Aveileble now

The nint is classic X-Mee face: Professor X calls his mutant. heroes together to infiltrate Genosha island and free captive



's X-Man hits much closer to the mark thee Sega's prerints are all over the cont set Fighter 2 players can swagger straight into the act

mutants. You must complete the first five missions (one for each character) to receive a password. There's a great learning curve early on, but once you've passed the first set of missions, the rest of the game flies. Attacks are performed with Street Fighteelike

button combinations, giving the Final Fight ish action a much needed twist. While it would've people, this game plays great, Nothing revolutionary, but fun. Rating: ***

ARCADE

Ace Driver

them N Format: Multi-pleyer Sitdown ase Date: Available sow

Along with Ridge Racer 2, Namoo has released another eight-player racer aimed at Formula racing fans. Armed with traditional texture-manned polygons with which today's arcades are becoming so familiar, Ace Driver also provides players with a

choice of two different views and three different skill levels Although it looks silly at first, the side to side movement seat sensation of turns and fishtails giving the game a slight edge over Ridge Racer 2 It may not be the best all-around racing title out today, but for

competitive multiplayer action, Ace var's nichtway dames (as Driver holds the title. Rating: ****

Cruis'n USA

Developer: TV Games INC Format: Motios simulating sit down/stendard sit-down/oae-

plever stend-up Release Date: Aveileble now After the confined loops of

Daytona USA and Ridge Racer, Midway/Nintendo head back to the open road in Crus'n USA for coast-to-coast racing. Two things to remember, 1) this game is (new word, folks) 'home-perfect,' Supposedly (and there is some doubt) based on Littra 64 hardware, this is exactly the same dame you'll play at home in fall '95 (Sony and Seza only promise watered-down versions of their flagship racers): 2) with 14 varied stages, eight cars (including a school bus and squad car, if you know the cheat), and multiple start points, Cruis'n offers real long-term play outside the arcades

While less graphically inpressive than its rivals, Cruis'r USA is the OutRun sequel Sega should have done, and is our pick for the driving crown. Rating: ****

Primal Rage

Publisher: Ateri Developer: Atari Format: Stand-up two-pleys Release Date: Aveilable po

There's always the need for a hook to make one fighting game stand out from every other kickand-bleed title in the arcades. And from a strict marketing point of view. Primal Rage should be the greatest crowd-pleaser ever made - Jurrasio Park succeeded in turning us into a nation of dinosaur lovers. But after wowing at the dinosaurs, the ultra-bloody fatalities, the high-profile vomiting and flatulation attacks. Primal Race really doesn't have the play to back up its monster attitude. The accelerated game speed leaves most matches nothing more than a contest of who can hit their buttons fastest. And utile Pringl's excellent colection of special moves remedies this flaw to some degree, most skilled players will probably be frustrated at how well a 'newbie' who just repeatedly mashes a button can do against expenenced players. All in all, an excellent show of graphics and sound design tarnished by unbalanced gameptay. Rating: ***

Ridge Racer 2

Distributer: Nemce Developer: Nemco Format: Sitting one end two-pleyer units Release Date: Available now

Not exactly a sequel, Namco's Ridge Racer 2 adds a couple of features missing from the original, and tweeks the graphics so that cars now integrate seamlessly with the backgrounds, Rear-levi mirrors can now help prevent opponents from passing, and more importantly, eight-user, mailleyer linkup has been added to enable Ridge Racer 2 to compete on equal footing with Segs's Daytona and Namoo's new Ace Direct. Also new is a drafting effect that adds realism to the competitive play.

Despite early rumors to the contrary, Sony's PlayStation translation of the original is coming along right on schedule, but will not feature any of RR2's

Virtua Cop Publisher: Sega

Rating: ****

Developer: Sege Format: Two-pleyer stendup with light guns Release Date: Aveileble now

Virtua Cop. a light gun shoot em' up that looks more like a bightech sequel to Konami's Lethal Enforcers than an all new release. shows the dangers of recklessly applying new technology to games that don't need it. Although 3D opponents add much needed depth (literally) to the title, the other benefits of Sega's AM-2 engine (such as 300,000 polygon per-second animation, and texture manned (mages) were never used in a way that really improved gameplay. If players were given a chance to freely explore their mapped-out environments, this same would be a winner, but as it is, Virtua Cop is just an old game with a new





Ridge Racer 2 adds little to the original. There's a multi-player option, a new color palette and a new player view. Namco's real effort went on Ace Driver

Arcade



COMMERCIAL

Killer Instinct

Publisher: Midwey Developer: Rere Ltd. Format: Two-ployer stendup Release Dete: Aveileble now

Here we see Williams/Nintendo attempting to piece just one more Jack of Spedies on top of an areade righting game house of cards that's in danger of imminent collapse. Soon games will demand something truly new, but for the moment it would seem that Miliam instinct will get us excited by a fight game just one more time...

Developed by Rine — the latest designent to at a five righthand of Menton — A latest designent to at a the righthand of Menton — A latest instance has all the technological muscle needed to excite (parely). Patter / Robolew results). Nating controls from Sinet (price of, Roberty and sea of blood from Mental / Robole of the backgrounds from Mental Agrideo. Signal Merken In Joseph of the Mental Agrideo. Signal Merken In Joseph of the Mental Signal signal signal signal control of the most impression endodes to ever in the video screen and all mental signal (CCS) aboned System and there is no doubt a right in the Mental Robole of the Mental Robole of the Mental Robole Signal Robole of the Mental Robole of the Mental Robole of the signal Robole of the Mental Robole of the Mental Robole of the signal Robole of the Mental Robole of the Mental Robole of the signal Robole of the Mental Robole of the Signal Robole of the Mental Robole of the Ment

So it's not the breakthrough title we're all waiting for — and some ranew genre has to explode. But for the moment at least, Nintendo's plans for Ultra 64 seem to be progressing smoothy. Rating: ****

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so you can check off all your receivers while reading a nicket zone, or burning

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be humiliated by Chris Berman taunting you from the booth (realism has its price).

FULL CONTROL OF YOUR RECEIVER AT THE RELEASE OF THE BALLILETS Y

The game has audibles, updated NFL rules (tike the 2-point conversion), and play options most other games wouldn't ESFIT Sports Center even understand. You can play an

entire season in the rain, sun and

snow, and save all your stats with the battery back-up. So if you love passing windows, buy another game. If you love passing, buy ESPN Sunday Night NFL:



... the game features the most intuitive on the fly passing game of any football title that we've played to date."

DieHard GameFan

EVERYTHING ELSE JUST PRACTICE

corresponding

Go on. Do the "write thing": NEXT Generation letters, 1350 Old Bayshore Highway, Suite 210, Burlingame, CA 94010. Or E-mail us at: ngonline@aol.com. We cannot reply personally to all correspondance, but everything is R&R'd (read and recovided).



We talk a lot of interaction. Here's where we deliver...

Catch 22 ensures that all premiere issues are accompanied by a disappointingly skinny mailbag:

No one is able to write until the mailing address has been printed — and then it's too late. We look forward to your contributions next month, in the meanwhile here's some of the correspondence we've had over the last couple of months...

reat news. I love reading EDGE and I'm sure that NEXT Generation will be even more interesting. We've been spying "Welcome to the Next Level" for a while now and I hope NEXT Generation will be just that.

Tom Kalinsk

Tranta from A bit of explanation in required hore. EDGE is a sizer publication of **MEXT Generation**. Launched in the LV, Bat over a year ago, EDGE has achieved spectacular success on the other size of the Acheruc, even winning the European Laurus Goftware Publisher Association's "Hagatine Of The Year" award for 1979. **NEXT Generation** will cooperate with EDGE in sharing information.

Sega Of America, CEO

So with EDGE providing us with European news, our own dedicated newshounds based in Tokyo and our own HO located in California's Silicon Valley, NEXT Generatioe can provide you with a truly global perspective.

he bunch of NEXT Generation is great news Everyone here at Capcom fights over the few copies of EDGE that we get. NEXT Generation is sure to be a winner.

Joe Morici Capcom, Vice President Marketing on behalf of Philips Media
Games, I'd like to welcome
NEXT Generation on the
United States EDGE, your state
publication in the UK, is known for
as high quality design, thought
provoking features, and previous and
reviews of the best the game industry
has to offer.

The sures that the NEXT

Generation staff is well on its way to creating a magazine for American gamers that these up to EDGE! reputation. We at Philips Media Games are looking forward to sharing our games with your realif, and most importantly of course, with your realders. Védcome again and Happy

Gaming!
Chris Dudas
Promotions Manager

would like to congratulate
GP Publications on its new
maguaine NEXT
Geoeratioe I'm excited to see a
publication with the look and feel of

Philips Media Gaming

EDGE dedicated to the US market. Finally, a grown by sideogame magazine for next generation gamers! Welcome! I look forward to seeing the first copy of what I am certain will be an impressive magazine. Thanks again for making it eatlier for me to say jo buy your own copy!" to swryone at Sag.

Best regards,
Tim Dunley
Product Manager
New Products Group
Seea of America

t the 3DO Company, we have thoroughly enjoyed the comprehensive and insighted coverage of the videograms industry by your UK sister publication. EDGE—th's dearly a leader in its class. We thank you for your coverage of 3DO and look forward to the same level of quality reporting in the

United States with NEXT Generation.

Congratulations on your American debut, and best of luck in your pursuit of the exciting and unfolding future of interactive entertamment! Sincerely,

Janet Strauss
Director of Marketing
The 3DO Company

elcome to the jungle!
Congratulations on your
debut into the videogame
industry. This is an exhibitanting time
for all of us as we enter the true hiteech fature of video gamapiay.
Best regards,
George Harrison

Director of Marketing Nintendo of America ongratulations, the launch of

NEXT Generation will be good for the gaming industry in America.

Founder and CEO interplay

ood luck on your "Edgey" new mag! Dave Perry & The Earthworm Jim Team Shiny Entertainment

ongratuitions on your new magnini, from all of use.

Research op connect, NEXT

Generation promises to keep its finger on the pulse of new garing technology, and become an essential monothy read for all of us in the ganing industry EDGE to the one magnate that eneryone lights over, and we are sure NEXT Generation will demand the same attention.

John Kavanagh Vice President Development Domark

OK, so that's enough self-promotion And **NEXT Generatios** is as much for the gamers on the street as it is for those working in the garring industry. So we wunt letters from gamers of all ages and experiences—as long as you've got something interesting to say. Here are a few questions we received on an imprompta NEXT Generation.

"workings visit" to our local arcade...

ow much will NEXT Generation concentrate on what's happening in countries outside of the United

> Chris Sulas Cupertino, CA

Our main focus is elevey on the games and systems available to gamers in the US. However, there are times when Europe and Japan lead the way (the launch of Saturn and PsySazison, for example) and in these cases we will print news from abroad as it paints an accurate preture of what will soon be happening back.

II NEXT Generation print game strategy guides? John Summers San Jose, CA

home

No. NEXT Generation is all about news. News of new games, new systems, new debates raging in the game development community and



Mailsho

ant to get something off you est in ten words or less? ont to send an anonymous essage of respect/abuse to e programmers of your last thware purchase? Mall shot interactive entertainment dustry! Post it here, usual



ke the city use your rocket

WAR IS HELL unless you're in a 40-ft robot with a rocket launcher (then it's kinda cool)

Gauntlet couple







look out, he'll recy a few





Tank into





scener may change



** Or a figure of them: 1-MA-DIA ATABLE 85 per source figure of the curry or year property persons or before value A could now subplace, a support, LSA only two
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Requirements Include: Minimum 4 years C and Assembly programming of tools and drivers for the management of graphics, animation, sound and music on the PC.

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THUMBOSIS

thumbosis \thom-bo-sos\ n,: A condition characterized by enlargement and inflammation of the thumb, often found in true Gamers.

How's that thumb of yours? Is it strong, well developed, responsive, even a bit INFLAMED? Great. If you want to work here, your mind also needs to be like that.

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Artists & Animators Were perfectionists about our craft. So if you're shrupt routing to outdo what been done, her's the place to create amazing backgrounds and/or fluid spine animation using the ultimate in software and hardware technology. Show your ability to draw 'organic' subjects, perfectly humans or animals, and how that translates on computer Your tools will include 3D Studio, SC 2D, DPain, Allas, Wave Front and Soft Image, so be prepared to prove you know how toue techn—and what you've done on those platforms. Samples of color, shadow and lighting will impress ut the most.



Producers You're the glue. After at least 3 year' managing the production of one or more successful video games from end to end, you already know how to keep complex game development from derailing. You understand the needs of programmen, artists, musicians. You're skilled at project planning, interdepartmental communication and lision. And you're a natural at keeping enthusiusm and ceretivity keels high.

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ake the Control

ending

Next Month

Gaming on the information superhighway

Internet gaming is possibly the fastest growing sector of interactive entertainment. Next month, NEXT Generation logs on for the definitive guide to what many industry pundits believe will be the future of gaming.

Also.

Mr Shigoru Myamoto — the creator of Mario and Donkey Kong Country — talks exclusively with NEXT Generation in Japan.



Setum Journeseal Live from Tokyo, NEXT Generation covers the hype, the hardware and the games surrounding Sega's most ambitious project yet.

NEXT Generation #2

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entirely created on the
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Blinding snowstorms, exploding barrels, crazy monkeys riding on the backs of fish ... it's all here in Nintendo's biggest game ever.

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fully rendered. Meaning, i looks really cool. Heck, it even sounds 3-D!

But the best part is you get all this on a Super NES. And you don't have to go out and blow your wad on some



extra piece of hardware to get it — unlike some other systems we

know. (Hint: rhymes with "Schmega".)

So grab a vine and start yelling "OOH OOH!" The beast is back. And he's second banana to no one.



